

GOVERNMENT OF INDIA RAILWAY DEPARTMENT (RAILWAY BOARD)

History of Indian Railways

Constructed and in progress

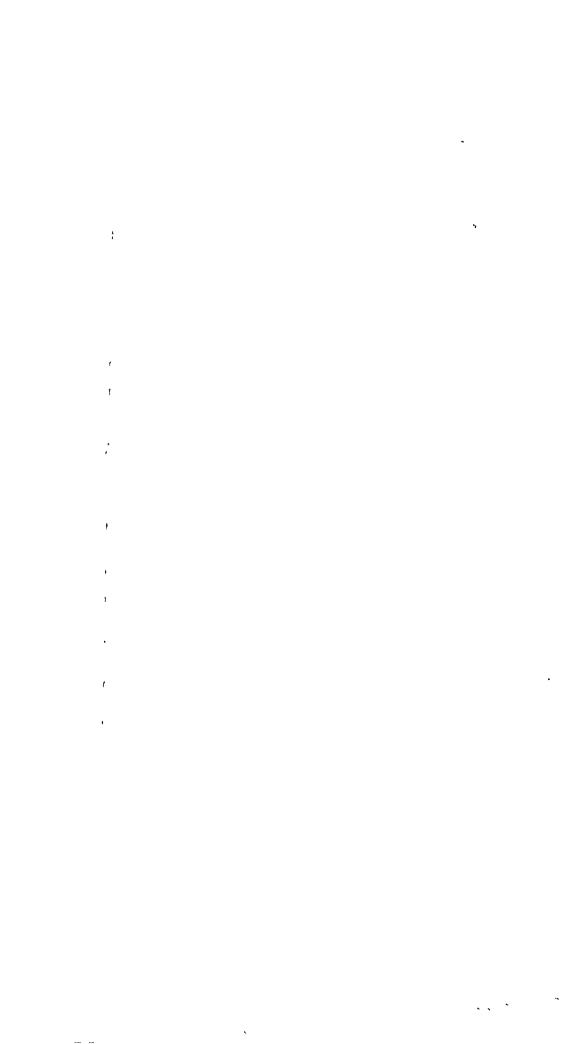
Corrected up to 31st March 1937

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PREFACE.

In accordance with the arrangement referred to in the preface to the issue of this publication corrected up to the 31st March 1918, this volume is the second biennial reprint corrected up to the 31st March 1937 for official use only.

Indian Railway Systems have been classified under three classes for statistical purposes—

Class I.—Railway systems with gross earnings of Rs. 50 lakhs and over a year.

Class II.—Railways with gross earnings of less than Rs. 50 lakhs but exceeding Rs. 10 lakhs a year, and

Class III .- Railways with gross earnings of Rs. 10 lakhs and under a year.



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 - (b) Reprints of articles from foreign engineering magazines.
 - (c) Reprints or abstracts of reports received by the Government of India on subjects connected with railways.

A complete list of the papers can be obtained gratis from the Chief Controller, Standardisation, Central Standards Office for Railways, Simla/New Delhi. A few of the more important Technical papers are mentioned below :-

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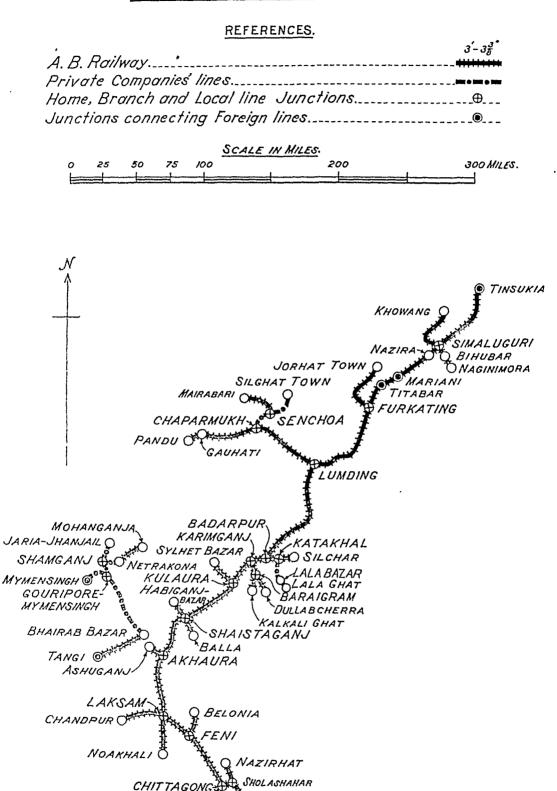
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Madras and Southern Mahratta	, 5' 6" gauge se 3' 3\frac{3}{3}" gauge	ection section	5′ 6″ 3′ 3 3 ″	M. &S. M. Ry. Co {	120 128
Madras Port Trust Railway		• •	$\left\{\begin{array}{c} 5' 6'' \\ 3' 3\frac{3}{8}'' \end{array}\right.$	Madras Port Trust	295
Mandra-Bhaun Mashrak Thawe Extension Matheran Light Mayurbhanj Mirpur Khas-Khadro Morappur-Hosur Morvi Morvi Tramway		••	5' 6" 3' 33" 2' 0" 2' 6" 3' 33" 2' 6" 3' 35" N. G.	N. W. Ry. B. & N. W Ry. Co. Matheran Steam Tramway Co. B. N. Ry. Co. Jodhpur Durbar S. I. Ry. Co. Morvi Durbar Morvi Durbar	165 19 296 27 118 211 246 247
Mymensingh-Bhairab Bazar Mysore	**	• •	3′ 3 <u>3″</u> 3′ 3 <u>3</u> ″	A. B. Ry. Co. Mysore Durbar	8 248
, N					
Nagda-Ujjain Nilgiri Nizam's State North Western O			5' 6" 3' 33" 5' 6" 3' 33' 5' 6"	B. B. & C. I. Ry. Co. S. I. Ry. Co. N. G. S. Ry. Co. { N. W. Ry	39 203 143 145 150
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P					
Pachora-Jamner Palanpur State Parlakimedi Light Peralam-Karaikkal Petlad-Cambay, Anand-Tarapu """Tarapur-Camb Phagwara-Rahon (Hoshiarpur I Piplod Devgad Baria Podanur-Pollachi Pondicherry Porbandar State Pulgaon-Arvi	ay section		2' 6" 3' 3" 2' 6" 3' 3" 5' 6" 5' 6" 2' 6" 3' 3" 3' 3" 2' 6"	G. I. P. Ry. B. B. & C. I. Ry. Co. B. N. Ry. Co. S. I. Ry. Co. B. B. & C. I. Ry. Co. S. I. Ry. Co. S. I. Ry. Co. S. I. Ry. Co.	112 52 29 204 41 42 158 59 206 240
Purulia-Ranchi R		••	2' 6"	B. N. Ry. Co.	30
Raipur-Dhamtari Rajpipla State Rajpura-Bhatinda Rohilkund and Kumaon		••	2' 6" 2' 6" 5' 6" 3' 3§"	B. N. Ry. Co. B. B. & C. I. Ry. Co. N. W. Ry. R. & K. Ry. Co.	31 60 167 183

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A. B. RAILWAY SYSTEM.



TTAGONG PORT

DOHAZARI

GENERAL.

From the year 1906-07 Interest on Debt in India has been calculated at the actual average rate for the year of interest on the mean non-specific debt of India, instead of at the fixed rates of 4 and $3\frac{1}{4}$ per cent. previously employed. The actual rates from 1906-07 to 1918-19 were 3·437, 3·412, 3·384, 3·384, 3·377, 3·401, 3·500, 3·388, 3·499, 3·4725, 3·2964, 3·4730 and 3·4818 per cent., respectively. The rates for the years 1919-20 to 1928-29 calculated with reference to the Government of India, Finance Department, Despatch No. 424, dated the 30th October 1919, were as follows:—

1919-20		$$ ${3 \cdot 4076 \atop 5 \cdot 9328}$	•	for expenditure to end of 1916-17, and for subsequent expenditure.
1920-21	••	C3.3252))))))))	for expenditure to end of 1916-17, and
1921-22	••	\\ 5.1979 (3.3252 \\ 6.1038	" "	for subsequent expenditure. for expenditure to end of 1916-17, and
1922-23	••	$\begin{array}{c} \cdot	11 91	for subsequent expenditure. for expenditure to end of 1916-17, and
1923-24		$3 \cdot 3252$ $5 \cdot 6900$);))))))	for subsequent expenditure. for expenditure to end of 1916-17, and for subsequent expenditure.
1924-25		3.3252 5.5400	11 27	for expenditure to end of 1916-17, and for subsequent expenditure.
1925-26	••		" "	for expenditure to end of 1916-17, and for subsequent expenditure.
1926-27	••		" "	for expenditure to end of 1916-17, and for subsequent expenditure.
1927-28	••		21 21	for expenditure to end of 1916-17, and for subsequent expenditure.
1928-29	• •		27 27 22 29	for expenditure to end of 1916-17, and for subsequent expenditure.
1929-30	• •	$$ $\begin{cases} 3.3252 \\ 5.3100 \end{cases}$	" "	for expenditure to end of 1916-17, and for subsequent expenditure.
1930-31	••		" "	for expenditure to end of 1916-17, and for subsequent expenditure.
1931-32	••	$\begin{cases} 3 \cdot 3252 \\ 5 \cdot 6500 \end{cases}$	" "	for expenditure to end of 1916-17, and for subsequent expenditure.
1932-33	••	3.3252 5.5400	,, ,, ,, ,,	for expenditure to end of 1 916-17, and for subsequent expenditure.
1933-34	••	$$ $\begin{cases} 3.3252 \\ 5.4300 \end{cases}$	" "	for expenditure to end of 1916-17, and for subsequent expenditure.
1931-35	• •	$ \begin{array}{c} \cdot & 3 \cdot 3252 \\ 5 \cdot 2000 \end{array} $	" "	for expenditure to end of 1916-17, and for subsequent expenditure.
1935-36	••	$ \begin{array}{c} $		for expenditure to end of 1916-17, and for subsquent expenditure.
1936-37	••	$ \begin{array}{c} 3 \cdot 3252 \\ 4 \cdot 8300 \end{array} $	" " " "	for expenditure to end of 1916-17, and for subsequent expenditure.
		Ç 144.	., 11	

One effect of the change is that, in some cases, while the capital outlay on a railway at the end of 1907 was more than that at the end of 1906, the interest charge in connection therewith was less.

The gain or loss to the State shown in the statistical tables are administrative figures attributable to the year and differ from those appearing on pages 27 to 29 of Volume I of Railway Board's Report for 1936-37 which are the net results of receipts and payments actually adjusted during the year.

CLASS I RAILWAYS.

With gross earnings of Rs. 50 lakhs and over a year.

1. ASSAM-BENGAL RAILWAY SYSTEM.

Chairman.—James Meadows Rendel, Esq.

Managing Director.—Lt.-Col. George Huddleston C.I.E., V.D.

Offices.—Bishopsgate House, 80, Bishopsgate, London, E. C. 2

Date of registration of the Company.—18th March 1892.

The construction of the Assam-Bengal railway as a State line was sanctioned in May 1891. The Assam-Bengal Railway Company was formed in England in April 1892 and took over the works commenced by the State. The late Noakhali (Bengal) railway, which was worked by the Assam-Bengal Railway Company up H54CRAcctts

to the end of 1905, was purchased by Government and amalgamated with the Assam-Bengal railway from the 1st January 1906.

Lines comprised in the system.—The Assam-Bengal railway system is made up of—

			Open line.	or sanctioned for construction.	
			Miles.	Miles.	Miles.
(a) Assam-Bengal railway (3' 33" gauge)			1,131 · 43	••	1,131.43
(b) Chaparmukh-Silghat railway (3' 33" gauge)			. 50.81		59.81
(c) Katakhal-Lalabazar railway (3' 3% gauge)			23 • 49		23.49
(d) Mymensingh-Bhairab Bazar railway (3' 32"	gauge)	•	. 100.68	.••	100.68
	Tota	1	. 1,306.41	••	1,306 · 41

(a) Assam-Bengal railway (3' 38" gauge)—

Progress in opening-

Maintine		Total. Grand Total.	Miles.	Date of opening.					1y.	ülw	of ra	ons o	Secti	
Chittagong to Feni	6	1	3									1		
Chittagong to Feni					į									Maintine-
Comilla 1.7-66 37-24 Comilla	l l		55.90	1-7-95	.									Chittagong to
Akhaura to Karimganj		1 1			- •	•	•	•	•	•		•		
Astrograph to Badaspur to Dámchara 12-06 12-00 13-63 15-63	1	1 1			- [•	•	•	•	•		•	aura.	Comilia to Aki
Badarpart to D\(\text{Amehara} \) 13 - 63 10 - 20		} [•	•	•	•	•	•	•	•	irimganj Radarnas	Karimouni to
Dimehara to Lunding					•	•	•	•	•	•	•	•	ámchara	Badaront to D
Lunding to Natirs 1.1-01 141-87 Natire to Lakwa 16-11-01 10-71 Lakwa to Bhojo 1.2-03 12-72 12-03 12-03	*Oi this 3 miles between))			. 1	•	•	•	:	•		•	Lumding	Damchara to
Nazira to Lakwa 15-11-01 10-71 10-71 12-20 12-20 12-20 12-20 12-20 12-20 12-20 12-20 12-20 12-20 12-20 14-63 13-003 14-63 13-003 14-63 13-003 14-63 13-003 14-63 13-003 14-63 13-004 14-63 13-004 14-63 13-004 14-63 13-004 14-63 13-004 14-63 13-004 14-63 13-004 14-63 13-004 14-63 14-004 14-63 13-004 14-004	Katlichara and Damohai	l i			- 1	•	•	:	:				zira .	Lumding to Na
Lakwa to Bhojo 1.2.03 12.72 Bhojo to Tinsukia 1.3.03 41.63 Branche	were reconstructed in 191	1 1				·	:							
1-3.03	†Of this, 71 miles between				-							•		
Neathall branch	Damchara and Lumdin	[[.	•	•	•	•			٠	ikin	
Láksám to Noakhái 15-5.03 30-46	were reconstructed i	574•20		j-	- 1								a.t	
Mandpur branch	1915-16 and 1916-17.	1. 1	1									i.		
Lâthám to Chandqur			30.46	15-5-03	• 1	•	•	•	•	,	٠ .	٠.	, 11009110	
Campi branch	l	. 30.48	27.00	1.7 05	!	_	_						ndpur.	
Akanara to Asangan junction wagon ferry 14-110 19-06 Asangan junction wagon ferry 14-116 0-80 Bhairab Bazar to Daulat Kandi 11-0-16 2-25 Daulat Kandi to Tangi 1-7-14 39-07 61-17 Fenchugan Ghat to Kusiyara 11-7-16 0-95 Kusiyara to Syhet 1-7-16 15-14 15-10 15-14 15-	1	21.00	31.02	1-1-80	•	•	•	•	•			•		
Ashugan Junction wagon terry 14-16	1	31.02	10.05	1-4-10			egna	he M	nk of t	t ba	e left	the	huganj on	Akhaura to As
Bhairah Bazar to Daulat Randi 1-9-16 2-25 Daulat Kandi to Tangi 1-7-14 39-07 Spikel branch	i	1 i					•		•					
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Renchuganj Ghat to Kusiyara 1.7.16]	61 • 17]-	- 1							76.4	ahnanni i	
Rusiyara to Sylhet 14-16	į.	1 (•	٠	•	•	•					
Sichar branch	}	1 1			• {	•	•	•	•		, ia	13011		
Badarpur to Katakhal Katakhal to Silchar 13.6.98 6.27 12.35 18.62 12.35	į.		15.14	1-4-15	•	•	•	•	•	1	•	•		
Katakhal to Silchar B-11-98 12-35 18-62 18-halt to American— Pandu to Gauháti to Jamunamukh 1-1-10 14-76 1-1-97 74-11 1-1-99 19-11 10-199 19-11 10-199 19-11 10-199 19-11 10-199 19-11 10-199 19-11 10		31.19		39.000	Į,								atakhal	
Pandu to Gauháti 1-1-10	1	1			: 1	•			_					
Panda to Usamuamukh		10.49	12.30	0-11-76	٠,	•								
Gauhati to Jamuananukh 1-1.97 74-11 Jamuananukh 1-1.97 74-11 Jamuananukh 1-1.90 10-11 1-3.09 10-11 1-3.09 10-15 1-55 10-10 1-3.09 10-15 1-55 10-10 1-3.09 10-15 1-55 10-10 1-3.09 10-15 1-55 10-10 1-3.09 10-15 1-55 10-10 1-3.09 10-15 1-55 10-10 1-3.09 10-15 1-55 10-10 1-3.09 10-15 1-55 10-10 1-3.09 10-15 1-55 10-10 1-3.09 1-55 1-55 10-10 1-3.09 1-55 1-55 1-3.09	4 Thomason d tone ()	16.02	+4.76	1-1-10	!					,				
Lanka to Lumding (temporary station) 1-3-99 15-15 15-15 1-3-99 15-15 1	‡ Transferred from th Eastern Bengal railway		74.11		. [,		h		
Lanka to Lunding (temporary station) 1-3-99 15-55 20-2-00 3-44 116-91	(3' 3\frac{1}{2}') for working as as	} {												
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Naginimora extension— 1.9.17 2.29 6.46 Bihubar to Naginimora 1.9.17 2.29 2.29 Ethouard branch— 2.29 Sepan to Khowang 10-11.27 12.00 Furkating-Badulipara Jorhat Branch— 1.7.28 33.75 Furkating to Bhalukmara 1.7.28 8.53 Karimganj-Longai Valley Branch— 42.28 Karimganj to Kalkali Ghat 1.12.28 21.40 Baraigram to Dullabchera 1.1.29 18.05 Shaistaganj-Habiganj Branch— 8.47 Shaistaganj to Habiganj 1.11.28 8.47 Netrakona-Mohanganj Branch— 8.47 Netrakona to Ihakurakona 15-1.29 6.60 Thakurakona to Mohanganj 1.4.29 10.95 Chittagong Nazirhat Branch— 1.12.29 14.23 Hathhazari to Nazirhat 1.12.29 14.23 Hathhazari to Nazirhat 1.12.29 16.88 Shaistagonj-Balla Branch— 22.97 Feni-Belonia Branch— 1.12.29 16.82 Senchea to Juriagaon 1.3.30 15.33 Juriagron to Mairabari 1.3.30 16.33 Juriagron to Mairabari 20.4.30 14.92 Sholashahar (Chittagong) Dohazari Branch— Sholashahar to Dohazari Sholashahar to Dohazari 1.3.30 14.92 Sholashahar to Dohazari 1.3.30 1.3.30 Sholashahar to Dohazari 1.3.30	from 1st April 1922.	116-91		-	- 1								Dibuban	
Bihubar to Naginimora 1-9.17 2-29 2-29			6.46	4.2.13	- 1	•	•	•	•		•	•		
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10-6-31 25-05 25-05	!	25.05	25.05	10-6-31		•	-	•						
Total open mileage		<u> </u>		r	[924	miles	open	Total					
[1,131-4]	3	1,131-43	I	1	٠,١			•						
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(a) Assam-Bengal railway (3' 33" gauge)—contd.

Details of construction-

- Permanent-way.— A length of 160 miles is laid with 60 lbs. R. B. S. rails and 87 miles with 80 lbs. I. M. R. second hand rails and the rest with 50 lb. flat footed steel rails partly on sal, pynkado, Nageshur, American and Australian sleepers. The Simaluguri-Khowang, Furkating-Badulipara-Jorhat, Feni-Belonia, Senchoa-Mairabari, Karimganj-Longai Valley, Shaistaganj-Habiganj, Shaistaganj-Balla and Chittagong-Nazirhat Railways are laid with 41½ lbs. steel rails, partly on sal, Nahar, Douglas Fir and Peapod pressed steel sleepers.
 - Ballast.—The ballast consists of broken brick, stone and laterite. The whole line has been ballasted.
 - Fencing.—The line is fenced between Chittagong Port and Silchar, Láksám and Chandpur, Akhaura and Ashuganj, and for 17½ miles between Gauháti and Lumding, one mile from Mariani station towards Tinsukia and at some stations on the hill section. Tangi branch is fenced.
 - Curves.—The sharpest permanent curve is of 382 feet radius.
 - Gradients.—The ruling gradient between Chittagong and Badarpur is 1 in 150; between Badarpur and Lumding, 1 in 60, with a 1 in 37 banking section, 9·89 miles long; between Pandu and Gauhati 1 in 100 and Gauhati to Tinsukia, 1 in 150 and Kulaura and Sylhet, 1 in 100; between Láksám and Noakhali, 1 in 200; between Láksám and Chandpur, 1 in 300; between Badarpur and Silchar, 1 in 150; between Akhaura and Tangi, 1 in 200; between Simaluguri and Khowang. 1 in 150; between Furkating and Badulipara 1 in 150; between Karimganj and Longai, Netrokona and Mohanganj, Chittagong and Nazirhat, Feni and Belonia, Shaistaganj and Habiganj, Shaistaganj and Balla 1 in 200 and between Senchoa and Mairabari 1 in 150.

Contracts-

- Dated the 26th April 1892 (called the principal contract), between the Secretary of State and the Assam Bengal Railway Company, as to the construction, management, maintenance and working by the Company, of their undertaking.
- Dated the 4th July 1895 (supplemental to the contract of 1892), between the Secretary of State and the Assam-Bengal Railway Company, as to the raising of £500,000 by means of debentures
- Dated the 12th April 1897 (supplemental to the contract of 1892), between the Secretary of State and the Assam-Bengal Railway Company, as to the raising of £300,000 by means of debentures.
- Dated the 6th December 1899, between the Secretary of State and the Assam-Bengal Railway Company, as to the extension of time for the completion of the railway.
- Dated the 4th November 1902, between the Secretary of State and the Assam-Bengal Railway Company, relating to the renewal of debentures issued by the Company.
- Dated the 29th April 1903 (supplemental to the contract of 1892), between the Secretary of State and the Assam-Bengal Railway Company, as to the adoption of 1s. 4d. per rupee as the "prescribed" rate of exchange. [Cancelled as from the 1st October 1921 under the contract of 19th November 1923.]
- Dated the 11th April 1906 (supplemental to the contract of 1892), between the Secretary of State and the Assam-Bengal Railway Company, as to the acquisition by the Company of the Noakhali (Bengal) railway for the purpose, and as a part. of their undertaking as from 1st January 1906.
- Dated the 5th March 1914 (supplemental to the contract of 1892), between the Secretary of State and the Assam-Bengal Railway Company, as to the adoption of the Government financial year for the purposes of accounts.
- Dated the 3rd May 1922 (supplemental to the contract of 1892), between the Secretary of State and the Assam-Bengal Railway Company, as to the transfer of the Pandu-Gauhati section of the Eastern Bengal railway for working as an integral part of the Company's undertaking from 1st April 1922.
- Dated the 19th November 1923 (supplemental to the contracts of 1903, 1906, 1914 and 1922), between the Secretary of State and the Assam-Bengal Railway Company, as to the compiling Accounts and statistics annually instead of half-yearly and as to rate of exchange.
- Dated the 8th December 1927 (supplemental to the contracts of 1892, 1906, 1914, 1922 and 1923), between the Secretary of State and the Assam-Bengal Railway Company, as to the construction, maintenance and working of certain branch lines, viz., Sibsagar Road, Khowang Railway, Furkating Badulipara-Jorhat Railway, Karimganj-Longai Valley Railway and Netrokona-Mohanganj Railway and any other new lines which shall be constructed as parts of the undertaking of the Company up to 31st day of December 1931.
- Dated the 10th May 1929 (supplemental to the contracts of 1892, 1906, 1914, 1922 and 1923), between the Secretary of State and the Assam Bengal Railway Company, as to the adoption of uniform rate of 1s. 6d. per rupee as the rate of exchange.
- Dated the 5th January 1937 (supplemental to the contracts of 1892, 1906, 1914, 1922, 1923 and 1929) between the Secretary of State and the Assam-Bengal Railway Company, as to the provision of buildings for the use of the Postal Departments and the rent, etc.

(a) Assam-Bengal railway (3' 3g" gauge)-contd.

Main provisions of contracts-

- (i) Land .- Provided by the Government free of cost to the Company.
- (ii) Government aid.—Government guarantee interest in sterling at 3 per cent. on the Company's share capital of £1,500,000. (Up to 30th June 1898 interest was allowed at 3½ per cent.)
- (iii) Distribution of profits .- The net carnings to be applied in payment to the Government of-
 - (a) the equivalent in rupees of interest paid on debenture capital; provided that, if the Company's share capital is not less than 71 the of the total capital expenditure, the rate of interest recovered under this sub-head (on debentures is such previous to 30th June 1894) shall not exceed the rate for the time being applicable to the Company's share capital. The last outstanding debenture was paid off on 4th July, 1936;
 - (b) the equivalent in rupees of the guaranteed interest paid to the Company in respect of share capital; and
 - (c) interest on the capital contributed, or deemed to be contributed, by the Government, at the same rate as the guarantee for the time being on the Company's capital. But if the capital advanced by Government exceed \(\frac{5}{11} \text{ths of the total capital expenditure for the time being, the rate of interest on the amount of the excess to be subject to agreement.
 - "Surplus profits", after interest charges have been met, are divided between the Company and the Government in the ratio of the respective amounts of capital expended by them on the undertaking.
- (iv) Rates and fares .- To be approved by the Government.
- (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—To be conveyed on the same general conditions as obtain on State railways of the same gauge, and at rates to be approved by the Government.
 - (b) Government bullion and coin, and the persona in charge thereof.—To be conveyed at special rates to be approved by the Government.
- (vi) Power of the Government to determine contract.—The railway and its appurtenances are absolutely the property of the Government, who may determine the contract on the 31st December 1921, or at the end of any succeeding tenth year by giving 12 months' previous notice.
 - NOTE .- (1) The Secretary of State decided not to exercise his power to determine the contract on the 31st December 1921.
 - (2) The Secretary of State also decided not to exercise his power to determine the contract on the 31st December 1931.
 - The Government may also determine the contract at any time on six months' previous notice if the Company fail to fulfil its obligations, or if the line be worked at a loss for three consecutive half-years. On the determination of the contract, the Company is to hand over to the Government the railway and all its belongings of every description, on repayment by the Government of the amount in sterling, at the par value, of the share capital paid by the Company to the Government, who will also indemnify the company against any existing liabilities, including debentures incurred with the sanction of the Secretary of State.
- (vii) Power of the Company to surrender contract .- Nil.
- (viii) Term of contract [if not determined under (vi)] .- Not specified.
- (ix) Terms of construction and working of new Branch lines—supplemental contract dated 8th December 1927. The Secretary of State will supply the money for the construction of the Branches. When any branch or part thereof shall have been opened for traffic it shall be deemed to have become an integral part of "the undertaking" and of the "open system" as respectively defined in the principal contract of 1892. The capital expenditure shall be incorporated in the capital account of the undertaking and the amount thereof shall thereafter but not previously be deemed to be capital contributed by the Secretary of State. Interest during construction shall not be included in the capital expenditure but such interest shall be treated as capital cost for the purpose of the pro-forma account mentioned below. At the close of the financial hall year in which any branch lines or part thereof shall have been opened for public traffic and at the close of each subsequent financial half year a pro-forma account of the result of working such branch or part thereof shall be drawn up and the sum shown in such pro-forma account as the loss or gain on the half-year's working shall be added to the net earnings of the undertaking for the purpose of calculating the share of surplus profits due to the company under the terms of the principal contract.

(a) Assam-Bengal railway (3' 38" gauge)—concld.

Statistics of working-

Note.—From the year 1936-37 the net earnings/working expenses have been arrived at after taking into account the 'Appropriation to Depreciation Reserve Fund' instead of actual expenditure on 'Replacement and Renewals' previously accounted

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) line open, and (ii) line partly or wholly under	Gross earnings.	Net carnings.	Percentage of net carnings on total capital outlay given in column 3,	Interest.	Surplus prolits to the Com- pany.	Gain or loss to the State pertaining to each year.	Earn- ings per mile per week.	Proportion of expenses to earnings.	Remarks.
1	2	construction.*	4	5	6	7	8	9	10	11	12
1895 .	Miles. 129 · 49	Rs. 4,27,47,203	Rs. 2,14,426	Rs. 8,017		Rs. 13,95,636		R«. —14,03,653	R9. 64	103-75	*From 1899 to 1931-32 the figures in this
1896 . 1897 . 1898 . 1899 .	285.90 360.63 379.25 434.66 436.26	5,50,03,217 6,04,23,186 8,32,11,755 10,45,26,273 10,31,71,809	6,18,785 9,90,640 13,08,124 16,19,646 17,09,955	33,238 72,214 54,551 3,22,701 3,64,364	0.08 0.10 0.07 0.37 0.38	23,73,034 22,56,270 24,45,275 28,63,084 33,31,390	: 11:	-23,39,796 -21,84,065 -23,90,724 -25,40,380 -29,67,026	71 63 83 75 75	94.63 92.71 95.83 80.08 78.69	column include Rs. 75,70,000 being interest charges during construc- tion debited to capital.
1901 - 1902 - 1903 - 1904 - 1905 -	589·21 589·21 740·38 740·38 740·38	11,17,19,504 11,87,04,959 12,40,28,518 12,60,09,639 12,78,56,722	21,34,252 20,96,058 23,07,658 29,53,962 31,14,295	4,50,654 2,54,418 4,43,963 1,05,390 1,25,615	0·44 0·23 0·35 0·08 0·10	35,06,252 38,08,387 40,71,450 41,66,535 42,61,306	:: :: ::	-30,49,598 -35,53,969 -30,27,487 -40,61,145 -41,35,691	70 68 71 77 88	78.60 87.86 81.48 96.43 96.32	the decrease in net earnings is due to heavy expenditure of an extraordi- nary character, e.g., heavier re-
1906 . 1907 . 1908 . 1909 .	775 · 28 775 · 28 775 · 28 775 · 28 770 · 81 769 · 89	13,25,20,704 13,49,01,242 13,90,59,050 14,31,45,488 14,45,68,076	42,20,964 48,00,137 46,06,729 49,14,893 51,70,052	4,27,858 6,40,254 †53,309 4,47,461 7,84,033	0·30 0·47 0·04 0·31 0·54	44,53,682 37,92,277 41,64,794 43,64,911 44,08,319	:: :: ::	-40,25,824 -31,52,023 -41,11,485 -39,17,450 -36,24,286	104 122 117 122 126	89.86 86.91 98.87 90.90 84.83	newals of sleepers, repairs to jetty sheds destroyed by fire in 1907, and commission on de- bentures renewed
1911 . 1912 . 1st gr. of	789·89 904·99	14,79,47,899 15,04,29,093	55,76,145 64,50,146	11,37,710 17,29,637	0·77 1·15	45,86,405 46,70,106	::	-34,48,695 -29,40,469	130 155	79·59 73·18	in 1908.
1013. 1913-14 . 1914-15 . 1915-16 . 1916-17 . 1917-18 . 1918-19 . 1918-20 . 1920-21 . 1921-22 .	804-09 811-73 847-98 \$807-99 823-12 869-41 869-41 869-41 869-41 869-41 869-41 874-11	15,18,32,051 16,70,22,687 16,24,85,226 16,49,71,133 16,66,64,680 10,89,41,111 17,09,34,478 17,61,01,439 17,70,92,552 17,93,79 919 19,17,56,661	18,08,616 70,42,703 68,85,473 67,47,378 67,38,485 73,66,661 80,90,477 1,03,12,318 1,03,50,566 85,18,203 1,19,71,644	5,96,938 22,71,129 17,31,408 14,90,502 14,70,329 18,22,922 17,64,662 19,16,168 20,68,203 1,33,175 26,98,832	0·39 1·45 1·07 0·90 0·89 1·08 1·03 1·09 1·17 0·07	11,75,440 49,09,054 61,33,336 62,48,099 51,39,317 64,65,160 64,81,049 58,76,815 57,77,767 66,24,385 68,27,495		- 5,78,502 -26,38,825 -34,01,05,93 -37,55,497 -36,59,988 -36,42,238 -37,16,487 -39,61,617 -37,09,464 -61,01,210 -41,28,663	173 167 156 161 157 159 179 228 220 191 263	66.00 67.75 74.85 77.91 78.04 75.25 78.19 81.43 80.03 98.45 77.46	†Decrease in the mileage is due to the exclusion of the hill section under reconstruction.
1923-21 1924-25 1926-27 1926-27 1927-28 1928-29 1929-30 1930-31 1931-32 1932-33 1933-34 1934-35 1934-35	874·11 874·11 874·11 874·11 874·11 902·90 1,009·70 1,092·65 1,108·38 1,131·43 1,131·43 1,131·43 1,131·43 1,131·43	19,40,67,060 19,65,62,702 20,01,65,410 20,60,20,890 21,47,64,623 22,37,99,628 23,33,08,626 23,62,24,131 24,20,63,650 **23,69,41,167 **23,69,41,167 **23,69,41,167 **23,96,47,299	1,29,62,420 1,45,42,504 1,95,12,356 1,77,37,642 2,04,78,750 2,03,90,706 2,03,29,123 41,96,41,709	30,12,038 55,05,441 74,22,732 81,46,310 97,74,973 97,43,285 771,15,815 \$71,24,104 \$63,00,103 42,46,283 38,16,996 †140,38,074 (a)25,73,101	2.02 2.85 3.71 3.97 4.55 4.35 2.08 2.60 *1.80 *1.62	03,33,056 68,54,696 70,31,669 71,96,387 76,06,476 82,87,340 92,03,659 93,40,595 96,05,019 94,51,038 91,96,287 91,62,272 91,72,248	56,238 1,70,210 2,62,551 4,01,994 3,54,357 97,684 79,245 5,281 1,855	-30,21,018 -13,15 483 +2,17,623 +6,97,381 +17,66,503 +11,01,588 -15,70,293 -22,48,710 -32,46,773 -53,61,52 -53,50,612 -42,58,213 -65,80,568 -73,10,140	285 320 363 390 431 399 361 363 268 275 305 275 278 288	69-82 61-52 55-05 54-07 52-27 63-47 65-34 63-73 65-02 73-15 76-48 72-82 84-05 89-08	§Including share of gross traffic earmings of Netrakona Mohangani Railway paid to Mymeusingh Bhairab Bazar Railway which is also included in the statistics of working of that Railway.
	1					L	1				

(b) Chaparmukh-Silghat railway (3' 33" gauge)—

Managing Agents.-Messrs. Martin and Co., Caloutta.

Date of registration of the Company. -1915.

Sanction to the construction of this line by the Assam-Bengal Railway Company, on behalf of the Chaparmukh-Silghat Railway Company was conveyed in Railway Board's Notification No. 276, dated the 5th October 1915.

Progress in opening-

logiess in opening—			
Section of railway.	Date of opening.	Miles.	Total.
1	2	3	4
Chaparmukh to Silghat	30-3-20	50.81	50.81

^{**}Excludes Rs. 75,70,000 representing interest during construction to end of June 1898 charged to Revenue in Government Accounts and Rs. 42,10,257 from 1936-37 representing adjustment in respect of exchange on debentures discharged but for the purpose of division of surplus profits added to the Capital of the Secretary of State.

†##Rebate Rs. 1,37,007 and earnings from cross traffic Rs. 4,204 paid to worked lines have been deducted.

[8] Rebate Rs. 1,20,067 and earnings from cross traffic Rs. 5,067 paid to worked lines have been deducted.

^{*}Revised figures,

(b) Chaparmukh-Silghat railway (3' 38" gauge)—contd.

Details of construction-

Permanent-way.—The permanent-way consists of 411-lb. new and 50 lbs. second-hand rails laid on sâl and asna sleepers.

Ballast.—The line is ballasted from Chaparmukh to Nowgong only.

Fencing.—The line is unfenced.

Curves .- The sharpest curve has a radius of 1,432 feet.

Gradients.—The ruling gradient is 1 in 100.

Contracts-

Dated the 14th November 1918, between the Secretary of State and the Chaparmukh-Silghat Railway Company.

Dated the 7th October 1919, between the Secretary of State and the armukh-Silghat Assam Rengal Railway Company.

As to the construction, maintenance, management and working of the Chaparmukh Silchat. Railway

Main provisions of contracts-

- (i) Land.—The land in British territory provided free of cost and the company allowed to have possession of the land so provided during the continuance of the contract.
- (ii) Government aid.—The Government guarantee to pay such a sum, out of the revenue of the Assam-Bengal Railway, as will, together with the net receipts of this railway, make up an amount equal to interest at the rate of $3\frac{1}{2}$ per cent. per annum on the paid-up share capital of the Company, and such a further sum, for the first 10 years, out of the revenue of the Assam Administration, as will raise that rate of interest to $4\frac{1}{2}$ per cent. on such capital.
- The Government also allow the company the sum of Rs. 6,000 per annum and such other actual expenses towards the office expenses and expenses of management and direction and also all such legal expenses as are incurred by the company with the approval of Government and debitable to revenue. But when the net receipts of the company in any year exceed 5 per cent. on the paid-up share capital, the excess is to be applied towards the reduction of this allowance.
- (iii) Terms of working.—The line is managed, maintained, worked and supplied with rolling-stock by the Assam Bengal Railway for 50 per cent. of its gross earnings.
- (iv) Distribution of profits.—When the net receipts of the company shall exceed the amount sufficient to pay interest at the rate of 5 per cent. per annum and office expenses and expenses of management and direction up to a sum of Rs. 6,000 and other actual expenses and legal expenses as aforesaid, one moiety of such excess shall belong to this railway and the other to the Assam-Bengal railway.
- (v) Rates and fares.—The rates and fares for the carriage of goods and coaching traffic shall be such as may from time to time be sanctioned by the Secretary of State and the classification of goods be in conformity with that in force on the Assam-Bengal Railway.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores—
 - (b) Government bullion and coin, and the persons in charge thereof—

All matters and things in connection with the management and maintenance of the railway and the conduct of traffic thereon, including police, telegraphs and telegraphic appliances or telephones shall in all respects, as far as practicable, be carried on in the same manner and subject to the same regulations and control by the Secretary of State as the same are carried on the Assam-Bengal Railway.

- (vii) Power of the Government to determine contract.—The Government may, by giving 12 months previous notice, the 'notice of purchase', determine the contract, either on the 31st March 1948 or at the end of any subsequent period of 10 years, by giving to the Company a sum equal to 25 times the average yearly net earnings during the last preceding 3 years, provided that such sum shall not exceed by more than 20 per cent. nor be less than, the total capital expenditure of the Company.
- The Government may also, by giving likewise the 'notice of special purchase', determine the contract when it is considered desirable that the gauge of the railway should be altered, or to convert it into a line of through communication, or to extend it, and the Company is unable to raise the capital necessary for the construction of the extension. In this case the Government undertakes to pay to the Company twenty-five times the average net earnings referred to above or 115 per cent. of the total capital expenditure of the Company, whichever may be the greater.
- (viii) Power of the Company to surrender contract,-Nil.
- (ix) I'erm of contract [if not determined under (vii)].—Not specified.

(b) Chaparmukh-Silghat railway (3' 33" gauge)—concld.

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay, including suspense to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net carnings.	Percentage of net earnings on total capital outlay given in column 3.	from the Assam- Bengal Railway and the Govern- ment of Assam.	Amount of surplus profits payable to the Assam- Bengal Railway.	Total iucome (columns 5+7—8).	Percent- age of total in- come on total capital outlay given in column 3.	Earn- ings per mile per week.	Propor- tion of expen- ses to earn- ings-
1	2	3	4	5	6	7	8	9	10	11	12
	Miles.	Rs.	Rs.	Rs,	1	Rs.	Rs.	Ra.		Rs.	
1919-20	50-81	26,76,939	Nil	The line wa	s opened fro	m the 30th	March 1920	only.	}		1
1920-21 .	50.81	28,91,896	1,31,299	65,649	2.27	43,428		1,09,077	3 77	50	50.00
1921-22 .	50.81	30,10,055	1,51,190	75,595	2.51	70,273	٠	1,51,878	5.05	57	50.00
1022-23 .	50.81	30,53,641	2,18,700	1,09,354	3.28	41,819		1,51,173	4.95	83	50.00
1023-24 .	50-81	30,60,163	2,65 828	1,32,914	4.34	••	••	1,32,014	4.34	101	50.00
1924-25 .	50-81	30,62,372	3,21,369	1,60,684	5.25	••		1,60,684	5.25	112	50.00
1925-26 .	50.81	30,68,833	3,51,343	1,75,671	5.72	} ··	4,030	1,71,641	5.59	133	50.00
1926-27 .	50.81	30,78,914	3,77,401	1,68,700	6.13	••	10,021	1,78,679	5.80	143	50.00
1927 28 .	50.81	31,08,757	4,02,492	2,01,216	6.47		18,330	1,82,916	5.88	152 156	50·00 50·00
1928-29 .	50.81	32,51,170 33,04,897	4,11,951 3,00,292	2,05,976 1,50,146	4.54	1	22,064	1,83,912	5.66 4.54	114	50.00
1929-30 .	50·81 50·81	33,83,401	2.51.183	1,25,592	3.71			1,50,146		95	50.00
1930-31	50.81	34,30,629	1,88,592	94,296	2.75	23,676	1	1,25,592	3.44	71	50.00
1931-32 . 1932-33 .	50.81	34,40,006	1,77,693	88,846	2.58	31,110		1,19,956		67	50.00
1933-34	50.81	34,41,816	1,07,010	83,955	2.44	35,285		1,19,240		63	50.00
1934-35	50.81	35,25,090	1,71,852	85,926	2.44	32,907	1 ::	1.18.833	3.37	65	
1935-36	50.81	35,01,810	1,55,094	77.547	2.21	43,655	1 ::	1,21,202		68	
1936-37	50.81	35,01,593	1,64,792	82,396	2.35	38,760	1 ::	1,21,156			50.00
	1		1	Į.	1		1		1	1	Į.

(c) Katakhal-Lalabazar railway (3' 33" gauge)-

Managing Agents .- Messrs. McLeod and Co.; Ltd., Calcutta.

Date of registration of the Company.-1915.

Sanction to the construction of this line by the Assam-Bengal Railway Company, on behalf of the Katakhal-Lalabazar Railway Company was conveyed in Railway Board's Notification No. 451-P., dated the 9th March 1916.

Progress in opening-

,		Section of railway.						Date of opening.	Miles.	Total.
		1						2	3	4
Katakhal to Lalabazar	•		•	•	•	•	•	1-4-23	23 • 49	23 • 49

Details of construction-

Permanent-way.—The permanent-way consists of 414-lb. second-hand rail laid on the sal sleepers with a small proportion of pynkado.

Ballast.—The line is ballasted.

Fencing.—The line is unfenced.

Curves. -The sharpest curve has a radius of 955 feet.

Gradients.—The ruling gradient is 1 in 150.

Contracts-

Dated the 19th day of May 1923, between the Secretary of State and the Katakhal-Lalabazar Railway Co., Ltd., as to the construction, management and working of the Katakhal-Lalabazar Railway.

Dated the 16th day of October 1923, between the Secretary of State and the Assam-Bengal Railway Co., for the working, maintenance and management of the Katakhal-Lalabazar Railway.

Main provisions of contracts-

- (i) Land.—Provided by Government free of cost to the Company.
- (ii) Government aid.—The Government guarantee interest at the rate of 3½ per cent. per annum on the paid-up share Capital of the Company, and the Assam Government guarantee for the first ten years an additional one per cent. on such Capital. The Government also allow the Company the sum of Rs. 3,500 per annum and such other actual expenses towards the office expenses and expenditure of management and direction and also all such legal expenses as are incurred

(c) Katakhal-Lalabazar railway (3' 33" gauge)-contd.

Main provisions of contracts-contd.

by the Company with the approval of Government and debitable to Revenue. But when the net receipts of the Company in any year exceed 5 per cent. on the paid-up share Capital the excess is applied towards the reduction of this allowance.

- (iii) Terms of working.—The line is worked and supplied with rolling stock by the Assam-Bengal Railway for 50 per cent. of its gross earnings.
- (iv) Distribution of profits.—When the net receipts of the Company in any year shall exceed 5 per cent. on the paid-up share Capital and office expenses and expenses of management and direction up to a sum of Rs. 3,500 and other actual expenses and legal expenses one moiety of such excess shall belong to this Railway and the other to the Assam-Bengal Railway.
- (v) Rates and Fares.—The rates and fares for the carriage of goods and coaching traffic shall be such as may from time to time be sanctioned by the Secretary of State and the classification of goods shall be in conformity with that in force on the Assam-Bengal Railway.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, etc.—
 - (b) Government bullion and coin and the persons in charge thereof—
- (vii) Power of the Gorernment to determine contract.—The Government may by giving to the Company 12 months' previous notice which is to be called the 'notice of purchase' determine the contract either on the 31st day of March 1951 or on the 31st day of March in the last year of any subsequent period of 10 years by giving to the Company a sum equal to 25 times the average yearly net earnings during the last preceding 3 years provided that such sum shall not exceed by more than 20 per cent.. or be less than, the total Capital expenditure of the Company
 - The Government may also by giving likewise the 'notice of special purchase' determine the contract when it is considered desirable that the gauge of the Railway shall be altered or that it should be extended, and the Company is unable to raise the Capital necessary for the construction of the extension. In this case the Government shall pay to the Company 25 times the average net earnings referred to above or 115 per cent. of the total Capital expenditure of the Company, whichever may be greater.
- (viii) Power of the Company to surrender contract.—Nil.
- (ix) Term of contract [if not determined under (vii) & (viii).]-Not specified.

Statistics of working-

Year	of the year.	Total capital outlay, including suspense, to end of the year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earn- ings.	Net earn- ings.	of net carnings on total capital outlay given in column 3.	Amount of interest recoverable from the Assam-Bengal Ry, and the Government of Assam.	Amount of surplus profits profits to the Assam-Bengal Ry.	·	Percentage of total income on total capital outlay given in column 3.	Earn- ings per mile per week.	earn- ings.
1	2	3	4	5	6	7	8	9	10	11	12
	Miles.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.		Rs.	
1923-24 1924-25 1925-26 1926-27 1927-28 1928-29 1929-30 1930-31 1931-32 1932-33 1932-33 1934-35 1936-37	23·49 23·49 23·49 23·49 23·49 23·49 23·49 23·49 23·49 23·49 23·49		05,807 90,968 99,091 1,07,541 1,02,958 98,957 86,094 82,655 59,488 53,023 51,369 46,459 46,208 42,301	32,904 45,484 49,546 53,770 51,479 49,478 43,047 41,327 29,744 26,511 25,695 23,230 23,104 21,151	2·24 2·84 3·93 3·36 3·13 2·90 2·52 2·41 1·74 1·55 1·34 1·23	8,789 24,705 20,186 16,563 15,764 21,285 30,075 22,062 43,350 40,536 40,536 42,331 32,003 27,423 42,247		41,693 70,180 69,732 69,333 67,242 70,763 73,122 64,289 *73,094 73,047 65,026 65,233 50,527 63,398	2.81 4.38 4.38 4.93 4.09 4.15 4.28 3.70 4.27 4.27 3.97 3.91 2.94 3.69	54 74 81 88 84 81 70 67 48 43 42 38 35	50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00

^{*} This includes Rs. 3,251 for interest on loan not met by net earnings.

(d) Mymensingh-Bhairab Bazar Railway (3' 3%" gauge)-

Managing Agents.—Messrs. Gillanders Arbuthnot & Co., Calcutta. Date of registration of the Company.—1915.

Sanction to the construction of this line was conveyed in Railway Board's Notification No. 115, dated the 5th May 1915. The line was constructed by the Mymensingh-Bhairab Bazar Railway Company.

(d) Mymensingh Bhairab Bazar Railway (3' 38" gauge)—contd.

Progress in opening-

- Sections of railway.	Date of opening	Miles.	Total.
1	2	3	4
Bhairab Bazar to Kishorgani	20-3-17	30.59	
Kishorganj to Gauripur Mymensingh Junction	1-9-17	30.53	
Mymensingh via Gauripur-Mymensingh and Shamgunj Junction to Netrakona	16-7-17	26.49	
Shamgunj to Jaria Jhanjail	1-5-18	13.07	
Total open mileage	••		100.68

Details of construction-

Permanent-way.—The permanent-way consists of 50-lb. steel rails, partly of Assam-Bengal railway type and partly of British standard section, laid on sâl sleepers.

Ballast.—The line is ballasted.

Fencing.—Only station yards, level crossings and selected portions of the line are fenced.

Curves.—The sharpest curve has a radius of 800 feet.

Gradients.—The ruling gradient is 1 in 200 on approaches to bridges with headways for navigation.

Contracts-

Dated the 7th day of November 1922, between the Secretary of State and the Mymensingh-Bhairab Bazar Railway Company, Limited, as to the construction, management and working of the Mymensingh-Bhairab Bazar Railway.

Dated the 14th May 1924, between the Secretary of State, the Mymensingh Bhairab Bazar Railway Company, and the Assam-Bengal Railway Company, for maintenance, management, use and working of the Mymensingh-Bhairab Bazar Railway.

Dated the 15th August 1932, between the Secretary of State and the Mymensingh Bhairab Bazar Railway, regarding the manner of apportionment of gross earnings derived from cross traffic from and to the Netrokona Mohanganj Railway passing over the Mymensingh Bhairab Bazar Railway.

Dated the 11th January 1933, between the Secretary of State, the Mymensingh Bhairab Bazar Railway Company and the Assam Bengal Railway Company, regarding the manner of apportionment of gross earnings derived from cross traffic from and to the Netrokona Mohanganj Railway passing over the Mymensingh Bhairab Bazar Railway.

Main provisions of contract-

- (i) Land.—Provided by Government free of cost to the Company.
- (ii) Government aid.—Out of a total paid up share capital of Rs. 86 lakhs, 63 lakhs is "guaranteed" capital and 23 "rebate" capital. The net receipts of the Branch Line Company are first divided in proportion to these two kinds of capital when the portion of the net receipts attributable to guaranteed capital is not sufficient to pay interest at the rate of 3½ per cent. on such capital, the deficiency is made good by Government. Similarly when the portion of the net receipts due to rebate capital falls short of 5 per cent. interest, the balance is paid by way of rebate by the Assam-Bengal and Eastern Bengal Railways provided that the amount thus payable does not exceed such proportion of the net earnings derived from traffic interchanged by these Railways with the Branch Line Company as the rebate capital bears to the total paid-up share capital of the Branch Line Company.
- (iii) Terms of working.—The line is managed, maintained and worked by the Assam-Bengal Railway. The amount payable to the latter Railway on this account is the ratio of the working expenses of the Assam-Bengal Railway including the Mymensingh-Bhairab Bazar Railway to their gross earnings or 50 per cent. of the gross earnings of the Mymensingh-Bhairab Bazar Railway whichever is less. Such charge shall include the provisions of all necessary rolling stock and machinery (other than fixed machinery).
- (iv) Distribution of profits.—When the net receipts of the Company without the assistance of a rebate suffice to pay interest at a rate exceeding 5 per cent. per annum on the paid-up share capital, the surplus, after meeting the administration charges of the Company, shall be divided equally between the Company, and the working agency the share of the latter being further divisible between the working agency and the Secretary of State in such proportion as may be agreed upon in the event of the net earnings of the Assam-Bengal railway exceeding a sum sufficient to pay interest on the working agency's share capital in the Assam-Bengal railway undertaking.

(d) Mymensingh-Bhairab Bazar Railway (3' 3\frac{3}{6}" gauge)—concld.

Main provisions of contract-concld.

- (v) Rates and fares.—The rates and fares for the carriage of goods and coaching traffic shall be such as may from time to time be sanctioned by the Secretary of State and the classification of goods shall be in conformity with that in force on the Assam-Bengal Railway.
- (vi) Power of Government to determine contract.—The Government may by giving 12 months' previous notice, the 'notice of purchase', determine the contract either on the 31st day of March 1948 or at the end of any subsequent period of 10 years by paying to the Company a sum equal to 25 times the average yearly net earnings for the last preceding 3 years, but the total amount so payable shall not in any case exceed by more than 20 per cent. the total capital expenditure of the Company or be less than such total capital expenditure.
- The Government may also by giving likewise 'notice of special purchase' determine the contract when it is considered desirable that the gauge of the Railway shall be altered or that it should be extended, and the Company is unable to raise the capital necessary for the construction of the extension. In this case the Government shall pay to the Company 25 times the average net earnings referred to above or 115 per cent. of the total capital expenditure of the Company whichever may be the greater.
- (vii) Power of the Company to surrender contract.—Nil.
- (viii) Term of contract [if not determined under (vi)].-Not specified.

Statistics of working-

ng suspense to end of each year, i.e., outlay on i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	of net earnings on total capital outlay given in column 3.	Rebate from Assam- Bengal	0	surplus profits payable	Total income	Income	Earn- ings	Propor-
]		and Eastern Bengal Rail- ways.	Guaran- tee of interest from Govern- ment.	to Assam- Bengal Rail-	(columns 6+7+8 —9).	on total capital outlay given in column 3.	per mile per week.	expenses to earn- ings.
3	4	5	6	7	8	9	10	11	12	13
Rs. 90,22,584 1,07,26,588 1,08,07,000 1,09,39,616 1,12,95,504 1,14,03,344 1,15,85,369 1,16,28,074 1,17,64,633 1,17,85,867 1,18,68,301 1,20,72,916 1,22,63,180 1,22,63,180 1,22,63,180 1,23,08,012	Rs. 3,10,466 6,01,510 0,48,453 0,30,130 7,74,766 10,51,924 11,90,210 12,00,673 11,76,791 14,44,070 16,24,593 13,04,006 *10,73,204 *7,40,853 *8,75,693 *8,75,693 *8,76,810	Re. 1,55,233 3,00,765 4,74,227 4,69,569 3,87,378 5,25,962 5,95,105 6,00,337 5,58,396 7,22,490 7,84,459 8,12,601 6,53,968 *5,30,170 *4,40,203 *4,41,573 *4,41,573 *4,13,657	1-50 2-50 4-20 3-43 5-14 5-10 5-02 5-13 6-76 5-42 4-03 3-59 3-59	Rs. 19,674 451 16,283 42,000 27,890 25,010 32,704	Rs. 0,206	11,070 10,404 2,725 60,406 97,626 1,31,426 51,372	Rs. 1,55,233 3,29,535 4,74,678 4,07,669 4,02,661 5,25,962 5,84,035 5,80,631 6,62,994 6,80,931 6,81,075 6,02,696 5,39,179 4,37,702 4,68,093 4,67,492 4,46,391	1 · 55 3 · 67 4 · 39 4 · 58 4 · 58 4 · 58 5 · 57 5 · 58 5 · 57 4 · 50 5 · 54 5 · 57 5	Ra. 68 115 181 179 148 201 227 225 276 300 310 249 141 167 167 167	80.000 80.0000 80.000 80.000 80.000 80.000 80.000 80.000 80.000 80.000 80.0000 80.000 80.000 80.000 80.000 80.000 80.000 80.000 80.000 80.0000 80.000 80.000 80.000 80.000 80.000 80.000 80.000 80.000 80.0000 80.000 80.000 80.000 80.000 80.000 80.000 80.000 80.000 80.0000 80.000 80.000 80.000 80.000 80.000 80.000 80.000 80.000 80.0000 80.000 80.000 80.000 80.000 80.000 80.000 80.000 80.000 80.0000 80.000 80.000 80.000 80.000 80.000 80.000 80.000 80.000 80.0000 80.000 80.000 80.000 80.000 80.000 80.000 80.000 80.000 80.0000 80.000 80.00
	1,18,68,391 1,20,20,683 1,20,72,915 1,22,64,592 1,22,63,180	1,18,68,301	1,18,68,301	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1,18,68,301 16,68,018 7,84,459	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

* See remarks against section § on page 5.

finclules Mymonsingh-Bhairth Bazar Ry. Share of Netrakona Mohanganj Railway Cross Traffe.

B. & N. W. RAILWAY SYSTEM.

REFERENCES.

B. & N. W. Railway		3-33
State lines		
Home, Branch and Local line		
Junctions connecting Foreign	IInes	
__	IN MILES.	
0 25 50 75 100	200 	300 MILES.
biological designation of the second	<u> </u>	
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Q. KATARNIAN GHAT		
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2. BENGAL AND NORTH-WESTERN RAILWAY SYSTEM.

Chairman.—Sir Henry P. Burt, K.C.I.E., C.B.E.

Managing Director.-Lt.-Col. W. R. IZAT, D.S.O., R.E.

Offices. -237, Gresham House, Old Broad Street, London, E. C. 2.

Date of registration of the Company. -23rd October 1882.

Lines comprised in the system.—The Bengal and North-Western railway system is made up of-

				Open Line.	Under construction or sa	nctioned		al.
				Miles.	Mile	s.	Mile	e9 .
(a) Bengal and North Western Railway (3' 3%" ga	ugel	•		1,269.06	••		1,269	•06
(b) Tirhoot Railway (3' 3; gauge)				709.52			799	•52
(c) Mashrak Thawe extension (3' 3} gauge)				39.32	••		39	32
	Tota	al		2,107.90	•••	_	2,107	•90
oowers-								····
me line over Foreign lines—					Sing	le line.	Sidings.	Mixed gauge.
						Miles.	Miles.	Miles.
Burhwal to Cawnpore			.:`)	ſ	61.82	8.51	15.83
Benarcs Cantonment to Benarcs City, and Benarcs to outer signal on the Benarcs-Allesion, East Indian railway (3'32 gauge)				for passenge goods tra		2.18	3.51	••
At Sitapur within the boundary of the Rohilkund Railway	and	Kun	non		l	0.08	0.21	• •
				Total		64.98	12.26	15.83

a) Bengal and North-Western Railway (3' 3% gauge)-

Progress in opening-

Running

Sections of railwa	y.					Date of opening.	Miles,	Total.	Grand total.
• 1						2	3	4	5
ain line—									
Sonepur vid Chupra, Savan and Goral	khpur	to Man	kapur			15-1-85	220.47		
Mankapur to Gouda			٠.			2-4-84	17:36		
Gonda to Colonelganj						20-10-91	17.89		
Colonelgani to Jarwal Road .						1-2-92	10.74		
Jarual Road to Gogra Ghat .						18-12-96	2.78		
Gogra Ghat to Chowla Ghat .		•	-			24-12-98	3.67		
Chowka Ghat to Burhwal			•			21-11-96	2.88	į	
			-	•	•			275.79	
Branches and Extension-									
Digha Ghat branch—									
Sonepore to Paleraghat .					•	15-1-85	11.43		
								11.43	
Mashrak branch-						f		ļ .	
Chupra to Mashrak					•	20-3-10	26 · 17	}	
						1-		26.17	
, Maharajganj branch-									
Daronda to Maharajganj .		•				1-4-07	3.00		
								3.90	
Savan-Captainganj branch-						1 4 05	!		
Savan to Thawe		•		•	-	1-4-07		1	
Thawe to Tamkuhi Road				٠		15-3-13	22.60		
Tamkuhi Road to Captainganj		•		•	•	26-4-13	38-86		
Danil a Lumak						-		79 - 28	
Bagaha branch—					- 1	7.007	FO FO		
Gorakhpur to Chhitauni Ghat		•	•	•	•	7-2-07	58.70		
Coral hour Conda Loon					- 1	1		58.70	
Gorakhpur-Gonda Loop— Gorakhpur to Uska Bazar						15-12-86	39.66	1	
Uska Bazar to Barlini		•	•	•	•	15-1-05			
	• •	•	•	•	• [30.88	ĺ	
Barhni to Tulsipur	• •	•	•	•	•	15-1-06	24.04		
Tul-ipur to Balrampur		•	•	•	[1-6-98	18.15	ļ	
Balrampur to Gonda	•	•	•	•	. [15-12-96	23.08	105.00	
Pharenda branch-						-		135.81	
Pharenda to Nautanya						0.10.05	05.00		
rnatenut to Anutanya	•	•	•	•	• 1	2-12-25	25*26	07.00	
Jarwa branch						1		25.26	
Gainasari to Jarwa					ļ	12-4-06	9.16	J	
Gammati to vat wa	•	•		•	•	12-4-00	0.10	v·16	
Afodhya branch-						į-		0.10	
Mankapur to Nawabgani (Gonda)						2-4-81	13.48	}	
Nawabgani (Gonda) to Lakarmandi	Reid			•	•	1-12-84	6.00	l	•
rianauganj (Gonda) to rakatmandi	Truck(•	•	•	•	4-44-0#	0.00	10.40	
					J	j~		19.48	
	r	arried o	TOP		Ì	1	ļ	644.98	
	C	arred (VCI	•	•	••	••	041.09	

2. BENGAL AND NORTH-WESTERN RAILWAY SYSTEM-contd.

(a) Bengal and North-Western railway (3' 38" gauge)-contd.

Progress in opening-concld.

Sections	of railway.			Date of opening.	Miles.	Total.	Grand total.
	1			2	3	4	5
fain line—concld. Brancles and Extension—concle		ght forward			••	614-03	
Naipalgan; Road branch— Gonda to Bahraich Bahraich to Naipalganj Ro	nd	: : :		2-4-84 15-12-86	37·47 33·15	.70-62	
Katarnian Ghat branch— Nanpara to Mihinpurwa Mihinpurwa to Katarnian (Shat .	: ::	:	15-12-96 25-3-98	14 ·70 27 · 28	42.07	
Sitapur branch— Burhwal to Sitapur .				13-3-11	58+91	58.91	
Chupra-Benares-Allahabad bro	inch-		l				
Chupra to Revelganj Revelganj to Manjhi Manjhi to Bakulha Bakulha to Ballia Ballia to Phephna Phephna to Ghazipur Ghat Ghazipur Ghat to Aunrihar Aunrihar to Benares Benares to Madhosingh Madhosingh to Jhusi Jhusi to Izat bridge Izat bridge to Allahabad Ci	Ganges-Gogra	Donb lines.	:	15-4-91 1-4-99 7-2-12 12-5-99 15-3-99 10-3-03 15-3-99 15-3-99 1-3-09 21-1-09 1-11-12 8-5-13	7-75 1-31 4-57 26-87 6-26 32-02 20-88 19-87 28-60 41-95 2-38 2-29		
Mirzapur Ghat extension-						200.78	
Madhosingh to Mirzapur Gl Mirzapur Ghat to Chilh .	ant Ganges-Gog	ra Doablines	. {	1-3-09 25-10-12	6·89 1·05	z∙ 91	
Bhatni-Benares chord— Bhatni to Turtipar Turtipar to Mau Mau to Aunrihar	 Ganges-Gogra Doal	o lines .		15-12-96 8-6-98 15-3-99	17-23 26-00 35-81	79•04	
Barhaj branch—							
Salimpur to Barhaj .	•			1-12-97	13-09	13.09	
Dohrighat branch—				ļ	İ		
Phephna to Indara . Indara to Dohrighat .]			15-3-99 21-3-01	31·39 21·92		
Shahganj branch—				ľ		53.31	
Mau to Azamgarh Azamgarh to Shahganj	. Ganges-Gogra	Donb lines	.{	8-6-98 14-2-03	26·83 34·95	0. 20	•
Jaunpur branch-	}			j	 ;	61-78	
Aunr:har to Jaunpur	ار.		. [21-3-01	36.54	36-54	
	Total o	pen mileage			••	1,269.06	

Details of construction-

Permanent-way.—The main line, the Sitapur and Gonda Nanpara Naipalganj branches and the section from Chupra to Inchcape Bridge and Bhatni to Turtipar, Indara to Phephna, also the Gorakhpur Bagaha branch, are laid with 50-lb. steel rails mostly on Sâl Sleepers. The rest of the line north of the Gogra is laid with 41½-lb. steel rails mostly on Sâl Sleepers. The Ganges-Gogra Doab main lines from Turtipar to Allahabad City and Aunrihar Junction and Aunrihar to Inchcape bridge are laid with 50-lb. steel rails on Sâl Sleepers and the branches with 41½-lb. steel rails on Sâl Sleepers.

Ballast.—The line is ballasted with kunkar, broken brick or shingle.

Fencing.—The main line and the section from Chupra to Revelganj are fenced.

Curves.—The sharpest curve is of 900 feet radius on the Gorakhpur division.

Gradient.—The ruling gradient is 1 in 300. On the various river ghat lines the gradients are steeper.

2. BENGAL AND NORTH-WESTERN RAILWAY SYSTEM-contd.

(a) Bengal and North-Western railway (3' 33" gauge)--contd.

Contracts-

- Dated the 12th December 1882 (called the original contract), between the Secretary of State and the Bengal and North-Western Railway Company, as to the construction and working by the Company of the Bengal and North-Western Railway.
- Dated the 22nd February 1886 (supplemental to and modifying in some respects the contract of 1882), between the Secretary of State and the Bengal and North-Western Railway Company.
- Dated the 18th July 1890, between the Secretary of State and the Bengal and North-Western Kailway Company, as to the taking over and working by the Company of the State railways known as the Tirhoot railway in conjunction with the Company's railway.
- Dated the 19th December 1894 (supplemental to the contracts of 1882, 1886 and 1890), between the Secretary of State and the Bengal and North-Western Railway Company, providing for the further extension of the Company's system of railways and for the exercise by the Company of running powers for through traffic over the Cawnpore-Burhwal (3' 33" gauge) link of the Oudh and Rohilkhand railway.
- Dated the 12th December 1895 (supplemental to the contracts of 1890 and 1894), between the Secretary of State and the Bengal and North-Western Railway Company, modifying in some respects the contract of 1890 relating to the Tirhoot railway.
- Dated the 23rd July 1896 (supplemental to the contracts of 1882, 1886, 1890, 1894 and 1895), between the Sceretary of State and the Bengal and North-Western Railway Company, providing for further extensions of the Company's railway and of the Tirhoot railway.
- Dated the 15th January 1903 (supplemental to the contracts of 1882, 1886, 1894 and 1896), between the Scientific and the Bengal and North-Western Railway Company, providing for further extensions of the Company's railway.
- Dated the 24th April 1903 (supplemental to the contracts of 1882, 1890 and 1895), between the Sccretary of State and the Bengal and North-Western Railway Company, as to the adoption of 1s. 4d. per rupee as the "prescribed" rate of exchange. [Cancelled as from the 1st October 1921 under the contract of 31st March 1924.]
- Dated the 14th December 1905 (supplemental to the contracts of 1882, 1890, 1895, 1896 and 1903), between the Secretary of State and the Bengal and North-Western Railway Company, continuing with modifications the contract of 1890 relating to the Tirhoot railway and modifying in some respects the contract of 1882 relating to the Company's railway.
- Dated the 7th October 1907 (supplemental to the contracts of 1882, 1886, 1890, 1894, 1895, 1896, 15th January and 24th April 1903 and 1905), between the Secretary of State and the Bengal and North-Western Railway Company, providing for further extensions of the Company's railway.
- Dated the 1st October 1908 (supplemental to the contracts of 1882, 1886, 1890, 1894, 1895, 1896, 15th January and 24th April 1903, 1905 and 1907), between the Secretary of State and the Bengal and North-Western Railway Company, for providing for a further extension of the Company's railway from Chupra to Mashrak.
- Dated the 9th July 1909 (supplemental to the contracts of 1882, 1886, 1890, 1894, 1895, 1896, 15th January and 24th April 1903, 1905, 1907 and 1908), between the Secretary of State and the Bengal and North-Western Railway Company, providing for a further extension of the Company's railway, from Burhwal to Sitapur.
- Dated the 13th October 1910 (supplemental to the contracts of 1882, 1886, 1890, 1894, 1895, 1896, 15th January and 24th April 1903, 1905, 1907, 1908 and 1909), between the Secretary of State and the Bengal and North-Western Railway Company, providing for extensions of the Company's railway connecting the Company's Main lines with the Company's Doab lines and with the Tirhoot railway, respectively, by bridges over the Gogra and Gundak rivers.
- Dated the 7th December 1910 (supplemental to the contracts of 1882, 1886, 1890, 1894, 1895, 1896, 15th January and 24th April 1903, 1905, 1907, 1908, 1909 and 13th October 1910), between the Scientific of State and the Bengal and North-Western Railway Company, providing for a further extension of the Company's railway from Thawe to Captainganj.
- Dated the 13th March 1914 (supplemental to the contracts of 1882, 1886, 1890, 1894, 1895, 1896, 15th January and 24th April 1903, 1905, 1907, 1908, 1909, 13th October and 7th December 1910), between the Secretary of State and the Bengal and North-Western Railway Company, providing for the accounts for purposes of these contracts being prepared from 1st April 1913 for the financial year instead of for the calendar year.
- Bengal and North-Western Railway Company's Act of 1914, authorising the formation of a "Capital Redemption Fund" out of the general revenues of the Company; the sums at credit of this fund to be utilised in purchasing and cancelling the Company's first or second preference stock.
- Dated the 15th May 1919 (supplemental to the above contracts), between the Secretary of State and the Bengal and North-Western Railway Company, as to the provision of funds for further capital expenditure on the Company's railway and the Tirhoot railway.

2. BENGAL AND NORTH-WESTERN RAILWAY SYSTEM-contd.

(a) Bengal and North-Western railway (3' 38" gauge)—contd.

Contracts-concld.

- Dated the 31st March 1924 (supplemental to the contracts quoted above), between the Secretary contracts of the Bengal and North-Western Railway Company, as to rate of exchange and a further extension of Company's railway from Pharenda to Nautanwa and as to repayment of part of the Company's capital expenditure on the termination of the Company's contracts.
- Dated the 23rd June 1925 (supplemental to the contracts quoted above), between the Secretary of State and the Bengal and North-Western Railway Company, as to the issue of special stock to the amount of £1,250,000 in the form of Delenture stock to meet further capital expenditure on the Company's Railway and the Tirhoot railway.
- Dated the 9th March 1928 (supplemental to the contracts quoted above), between the Secretary of State and the Bengal and North-Western Railway Company, regarding the construction and working by the Company of further extension to the Tirhoot railway and the Company's Railways during the period 9th March 1928 to 31st December 1932.
- Dated the 19th June 1929 (Supplemental to the contracts quoted above), between the Secretary of State and the Bengal and North-Western Railway Company, regarding rate of exchange.
- Dated the 8th December 1932 (supplemental to the contracts quoted above), between the Secretary of State and the Bengal and North-Western Railway Company, providing terms for the extension of contracts until the end of the year 1937 or 1942.
- Dated the 16th March 1933 (supplemental to the contracts quoted above), between the Secretary of State and the Bengal and North-Western Railway Company, as to the issue of special stock to the further amount of £1,250,000 in the form of Debenture stock to meet further capital expenditure on the company's railway and the Tirhut Railway or to any additional state works.
- Dated the 5th June 1936 (supplemental to the contract of 1890 and to all contracts expressed to be supplemental to the said contract and in particular to the contract dated the 14th December 1905), between the Secretary of State and the B. and N. W. Railway Company, as to division of the residue of Net revenue on the termination of the contract of 1890.
- Dated the 15th January 1937, between the Secretary of State and the B. and N. W. Railway Company, as to fixing amount of rent payable by the Postal Department of the Government of India.

Main provisions of contracts-

- (i) Land.—Provided by the Government free of cost for the Company's railway; and at the cost of capital for the Tirhoot railway undertaking.
- (ii) Government aid.—Nil.
- (iii) Terms of working.—The Company's railway and the Tirhoot railway as well as extensions thereof constructed between 9th March 1928 and the 31st December 1937 or 1942 as the case may be are worked conjointly; but the accounts of each of the Company's railways and the Tirhoot railway as also of each of the atoresaid extensions are kept separate and distinct, except those relating to working expenses, other than maintenance, abstract A.
- In addition to the ordinary working expenses and usual contributions to the Provident Institution the working expenses for each half-year include interest at 4 per cent. per annum on all outlay up to the 31st December 1904 expended on "rolling stock", "steamers and barges and landing stages", "stores", and "stations and offices, station machinery, staff quarters and all other works including permanent-way at Sonepore" for joint use, and on all outlay subsequent to that date up to the close of each half-year incurred on the same matters and on "workshops and store buildings, etc." or any other works used for joint purposes. The interest so charged is to be credited to the respective revenue accounts of the Company's railway and the Tirhoot railway undertaking in the ratio of the contributions of capital made to the joint accounts by each.
- The working expenses of the open system, exclusive of the charges for maintenance of way, works and stations, other than those for general supervision, are divided between the Company's railway and the Tirhoot railway undertaking in proportion to their respective gross earnings.
- The charges for maintenance of way, works and stations, other than the charges for general supervision, are appropriated and allotted to the Company's railway or the undertaking on the basis of the actual expenditure incurred by each.
- The working expenses of each extension constructed between 9th March 1928 and 31st December 1937 or 1942 as the case may be are calculated half-yearly and are a sum which bears to the gross earnings during the half-year of the extension the same ratio as the combined working expenses and maintenance charges for the half-year of the Company's railway and the Tirhoot railway including all such extensions bear to the combined gross earnings for the half-year of the same railways and extensions.

2. BENGAL AND NORTH-WESTERN RAILWAY SYSTEM—contd.

(a) Bengal and North-Western railway (3' 33" gauge)—contd.

Main provisions of contracts-contd.

- (iv) Distribution of profits.—As to the Company's railway, under the original contract of 1882 any surplus over 6 per cent. was to be equally divided between the Government and the Company; but this provision was rescinded by the contract of the 22nd February 1886, which leaves the profits entirely in the hands of the Company.
- As to the open system, after deducting half-yearly from the gross earnings of the Company's railway, of the Tirhoot railway and of the extensions constructed between 9th March 1928 and 31st December 1937 or 1942 as the case may be the working expenses noted under (iii), the balance of the gross earnings (termed net revenue) in the case of the Company's line belongs to the Company in the case of the aforesaid extension to the Secretary of State and in the case of the Tirhoot railway undertaking is applied in the following manner and order:—
 - (a) in payment to the Company of interest accruing in each half-year, after the expiration of the period during which interest is chargeable to capital, at 4 per cent. per annum on onehalf of the capital raised and expended by the Company for the purposes of the railway crossing the Gundak river by a bridge, from Bagaha to Chhitauni, including interest paid out of capital during construction;
- Note.—The Secretary of State has agreed that interest at 5½ per cent. per annum on one-half of additional capital required in connection with the Begalia Bridge will be charged to the net revenue of the undertaking and credited to company in lieu of the 4 per cent. (India Office letter No. P. W. 3726-24, dated the 11th December 1924).
 - (b) in payment of interest at 5 per cent. per annum on state share of special stock raised by the company to meet further capital expenditure on Tirhoot railway and any additional state works;
 - (c) in payment to the Government from the aggregate net revenue for the entire year of interest accruing in such year at 5 per cent. per annum on all money advanced or expended by the Government for the purposes of the open lines of the undertaking which have not been repaid to the Government;
- Note.—Advances made by the Secretary of State after 31st March 1921 .or capital expenditure on the Tirhoot State Railway are subject to interest at rate to be agreed between the Secretary of State and the Company.
 - (d) the residue if not in excess of 10 lakhs going to Government and the Company in the proportion of $\frac{9}{10}$ ths to the former and $\frac{1}{10}$ th to the latter; if in excess of 10 lakhs, then as to 10 lakhs in the aforesaid proportion, and as to the balance in the proportion, of $\frac{9}{30}$ ths to the Government and $\frac{1}{30}$ th to the Company.
 - (e) On the termination by purchase of the Company's railway or otherwise of the Contract of 1890 the residue of net revenue for the broken period of less than one year ending with the date of such termination shall be divided as under:—
 - If such residue does not exceed the sum (hereinafter called the said sum) which bears to Rs. 10 lakhs the same proportion as is borne by the broken period to the financial year of the Government of India of which it forms part then in the proportion of 9/10ths to the Secretary of State and 1/10th to the Company and if the residue of net revenue exceeds the said sum then as to an amount equal to the said sum in the proportion of 9/10ths to the Secretary of State and 1/10th to the Company and as to the amount by which the residue of net revenue exceeds the said sum in the proportion of 29/30ths to the Secretary of State and 1/30th to the Company.
- The difference between the net revenue of the Company's railway belonging and payable to the Company and the aggregate advances made to the Company, in any half-year, is to be adjusted as soon as known by payments in India between the Government and the Company as the case may require.
- (v) Rates and fares.—As to the Company's line—to be approved by the Government, who may require the charge for salt, coal and foodgrains for full-wagon loads carried not less than 100 miles to be reduced to any rate not below ½th pie per maund per mile and for passengers not below 2 pies per mile.
- As to the open system—for the carriage of through passengers and goods over the Company's railway of all through and local passengers and goods over the Tirhoot railway undertaking, and of all passengers and goods from and to the undertaking or any connected railway carried over the Company's railway or any foreign railway connected therewith, the Government have the power to fix and vary the classification for passengers and goods, and the maxima and minima fares and rates for the several classes of passengers and goods, respectively.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails and post office servants on duty.—To be carried free on the Company's railway; and on the Tirhoot railway on the same general conditions and at the same rates as may be in force on the 3' 3\mathbf{g}" gauge State railways.

2. BENGAL AND NORTH-WESTERN RAILWAY SYSTEM-contd.

(a) Bengal and North-Western railway (3' 38" gauge)—contd.

Main provisions of contracts-contd.

- (b) Troops, police, high Government officials and Government stories.—As to the Company's railway, to be conveyed on the same general conditions as those in force on the 3' 33" gauge State railways, and at rates to be approved by the Government. As to the Tirhoot railway undertaking, to be conveyed on the same general conditions and at the same rates a may be in force on State railways of the 3' 38" gauge.
- (c) Government bullion and coin, and the persons in charge thereof.—To be conveyed as special rates approved from time to time by the Secretary of State.
- (vii) Power of the Government to determine the contracts relating to the Company's railway.—The line and all its appurtenances become the property of Government on the termination of the contracts. If the contracts terminate by the efflux of time the Government is to pay to the Company the value of rolling-stock, movable machinery, stores, etc., delivered to the Secretary of State less the amount expended subsequent to 31st December 1912 on the same items out of special stock which forms a liability of the Secretary of State, on the Company paying to the Secretary of State any balance from the proceeds of the special stock which is unexpended on the termination of the contract, less the amount expended from the sum of £433,333. fixed as non-returnable expenditure to be provided by the Company from its own resources and to be expended from 1st January 1913 to 31st December 1937 or 1942 as the case may be. The Government will also refund to the Company all Capital expenditure incurred by it subsequent to 31st December 1912, in excess of the sum of £433,333, if such expenditure shall not have been met out of the proceeds of the special stock, provided that, so much of the expenditure as represents expenditure on Rolling Stock, moveable machinery, plants, boats and stores belonging to the Company shall be deducted from the sum payable by the Government to the Company as detailed above. The Government may determine the contract on 31st December 1937 or 31st December 1942 as the case may be on giving to the Company 12 Calender months' previous notice in writing. If this option is exercised in either of the years 1937 and 1942 the price payable is to be
 - (a) The equivalent in sterling of the sum of Rs. 10,17,08,000 (subject to any adjustments which may be required in respect of railway police charges for the years 1907-1912) calculated at 1s. 6d. to the rupee, it being understood that no variation in this rate shall be admissible.
 - (b) The actual sterling capital expended by the Company with the Secretary of State's sanction on the Doab lines (subject to the provision of the contracts contained in the said Deeds of the 15th May 1919 and the 31st March 1924).
 - (c) The sterling capital advanced by the Company for expenditure on the Company's railway other than the Doab lines in excess of the sum of £433,333 between the end of the year 1912 and the end of the year 1937 or 1942 as the case may be so far as such expenditure has not been met out of issues of the special stock referred to in the contract contained in said Deed of the 15th May 1919 and subject to the provisions of that contract. One-half of the capital raised and expended by the Company for the Manjbi Ghat-Bakulha section, including interest paid out of capital during construction, is to be treated as capital attributable to the Doab lines; the other half, and the whole of the capital for the Bagaha-Chhitauni section, including interest paid out of capital during construction, is to be treated as capital attributable to the Company's main lines. The Government may also determine the contract at any time, at six menths' notice, if the Company fail to observe its obligations, on paying the value of rolling-stock, stores, etc., and fair value of the line, less the value of the same treated as a reversionary sum absolutely payable on the 31st December 1981 and the amount of any expenditure which shall have been provided for out of special stock.
- (viii) Power of the Government to determine the contracts relating to the Tirhoot railway undertaking.—
 If the original contract with the Company, dated the 12th December 1882, terminate for any reason prior to the expiry of the term of the contracts relating to the Tirhoot railway undertaking, then the latter also, ipso facto, terminate at the same time. The Government may also terminate the Tirhoot railway contracts at any time, on six months' notice, if the Company fail to observe its obligations, otherwise the Tirhoot railway contracts shall continue in force until the 31st December 1937 or 1942 as the case may be. But if the option shall not be exercised in either of the years 1937 or 1942, the Company shall have no power to continue the working of the Tirhut State Railway after the end of the year 1942 unless a further agreement in relation thereto is come to by the parties. On the determination of the Tirhoot railway contracts the Government will resume possession of the undertaking, and any capital sums which may have been raised by the Government and expended on the Company's lines, or raised and expended by the Company on the undertaking, are to be considered as debts due from the Company and the Government respectively.
- (ix) Power of Government to determine the contract relating to the extensions constructed between the 9th March 1928 and 31st December 1937 or 1942 as the case may be.—Government may determine the contract relating to any or all of these extensions on the 31st day of December 1937 or 1942 as the case may be or on the same day in any subsequent year by giving to the

2. BENGAL AND NORTH-WESTERN RAILWAY SYTSEM-contd.

(a) Begal and North-Western railway (3' 38" gauge)—concld.

(Total capital)

Statistics of working-

Company at least six calendar months' notice in writing expiring on such day irrespective of whether the principal indentures are determined at the same time or not. The Government may also determine the contract at any time on six months' notice if the Company fail to observe its obligations.

- (x) Powers of the Company to surrender contract.—Nil, except as regards the contract of 1928 which can be surrendered by the Company by giving six months' notice to the Secretary of State in the manner and under conditions in which Government is empowered to determine the contract, vide clause (ix) above.
- (xi) Term of contracts relating to the Company's railway.—99 years, i.e., until the 31st December 1981 subject to (vii).
- (xii) Term of contracts relating to the Tirhoot Railway undertaking.—33 or 38 years as the case may be i.e., from 1st January 1905 to the 31st December 1937, or 1942, subject to (viii).
- (xiii) Rental payable by the Postal Department.—If the Secretary of State so requires, the company shall forthwith provide suitable buildings for the Postal Department on terms and conditions prevailing on State Railways and the Postal Department shall pay for such buildings a yearly rental at a rate calculated on the capital cost thereof including cost of land as is in force on State Railways worked by the State.

| Interest |

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Interest divided between the Government and the company in the ratio of gross carnings.	Payments received for working the Tirhoot railway.	Total income.	Percentage of total income on total capital outlay given in column 3.	Earnings per mile per week.	Proportion of expeuses to earnings.
1	2	3	4	5	6	7	8	9	10	11
1884	Miles. 75.00 303.00	Rs. 1,52,47,428 2,01,86,980	Rs. 77,670 12,05,541	Rs. -26,221 5,89,206	Rs	Rs	Rs. 26,221 5,89,206	2:92	Rs. 29 72	133·76 51·13
1886	376.00 376.00 376.00 376.00 376.00	2,32,16,102 2,56,22,684 2,61,51,593 2,63,41,872 2,68,84,918	18,54,074 19,44,002 22,09,543 22,11,824 22,08,788	8,09,189 8,37,004 9,88,844 10,53,964 12,21,020	::	*24,245	8,09,189 8,37,004 9,88,844 10,53,964 12,45,265	3·49 3·27 3·78 4·00 4·63	106 90 102 103 101	56·48 56·36 55·94 52·25 44·73
1891	401.00 414.50 414.50 414.50 414.50	2,76,68,842 2,83,88,821 2,84,84,234 2,87,24,887 3,12,95,704	24,76,909 29,39,077 26,14,546 26,17,242 25,71,036	15,48,590 16,20,567 15,75,636 16,87,899 16,82,766	::	69,484 67,060 66,842 72,358 72,909	16,18,074 16,87,627 16,42,478 17,60,257 17,55,675	5·85 5·94 5·79 6·13 5·61	111 125 114 115 112	37·48 44·86 39·74 35·51 34·55
1896	478·63 485·55 586·25 743·00 743·00	3,43,36,114 4,10,32,207 4,66,78,822 5,16,06,763 5,24,73,019	26,26,033 27,55,718 33,31,890 43,44,861 43,64,006	16,70,172 17,24,277 19,74,920 26,70,911 24,79,433		71,614 74,905 75,885 61,940 49,563	17,41,786 17,99,182 20,50,805 27,32,851 25,28,996	5.07 4.38 4.39 5.30 4.83	113 105 112 113 109	36·40 37·43 40·73 38·53 43·18
1901	743.00 747.75 812.96 870.80 901.32	5,50,91,830 5,84,82,525 6,21,09,547 6,43,92,183 6,77,55,566	53,66,794 55,60,238 61,98,433 67,16,933 61,79,116	30.97,372 29,72,183 38,53,972 43,28,496 34,34,390	+37,627	76,853 76,671 1,04,369 1,16,834 1,69,446	31,74,225 30,48,854 39,58,341 44,45,330 36,41,463	5.76 5.92 6.37 6.90 5.37	134 139 145 147 117	42·22 46·55 37·82 35·56 43·81
1906	932·18 1,014·90 1,016·73 1,091·56 1,117·14 1,175·84 1,177·27	7,13,66,623 7,50,01,758 7,91,13,230 8,44,52,801 8,92,16,095 9,31,80,852 9,68,79,261	77,02,976 89,59,804 79,80,293 80,65,653 84,58,223 99,29,872 1,12,49,175	40,92,699 49,72,741 43,74,935 43,59,479 48,85,946 57,59,938 73,19,499	-9,028 -25,044 +45,015 +31,817 +58,810 +41,140 +38,037	2,01,060 2,04,275 1,58,939 58,411 2,01,276 2,35,109 3,09,961	42,84,731 51,51,972 45,78,889 44,49,707 51,46,032 60,36,187 76,67,497	6.00 6.87 5.79 5.27 5.77 6.48 7.91	142 154 162 142 146 162 184	46.99 44.78 44.78 45.95 42.23 42.01 34.93
lat qr. of 1913 1913-14 1914-16 1915-16 1916-17 1917-18 1918-19 1919-29 1920-21 1921-22 1922-23 1923-24 1924-25	1.200-00 1,240-12 1,235-67 1,240-92 1,241-67 1,241-65 1,243-49 1,248-58 1,248-33 1,247-96 1,247-93 1,247-83 1,247-84	9,81,20,363 9,89,54,245 9,91,40,377 9,90,50,532 9,88,81,177 9,78,24,472 9,63,09,535 9,61,29,832 9,81,69,381 9,88,15,160 10,24,65,023 10,57,00,909 10,79,72,697	29,13,331 1,06,80,308 1,08,71,200 1,02,15,346 1,18,37,675 1,21,80,340 1,49,25,309 1,42,74,500 1,45,40,255 1,67,04,612 1,81,02,003 1,77,25,761	18,67,011 63,85,474 65,71,263 00,55,164 69,00,456 67,21,392 86,48,237 81,92,474 77,83,581 93,66,964 1,01,31,279 98,01,682 1,03,38,850	+21,676 +1,19,400 +68,751 +85,587 +60,586 +40,938 +26,253 +12,991 +43,097 +63,077 +63,077 +40,800 +77,206	1,37,495 2,96,483 2,53,906 2,34,486 2,69,183 2,19,361 3,13,336 2,56,514 2,47,667 3,19,676 3,72,539 3,49,870 3,68,746	20,26,782 68,01,357 68,03,023 63,75,237 72,30,225 69,72,691 89,87,826 84,61,079 80,74,345 77,49,717 1,05,56,595 1,01,02,352 1,07,84,802	2.07 6.87 6.05 6.44 7.31 7.13 9.33 8.80 8.22 9.87 10.30 9.64 9.73	187 166 169 158 183 189 230 220 224 257 278 273 286	35-86 40-21 39-55 40-72 41-71 44-89 42-66 42-61 46-50 43-93 44-04 44-74
1925-26 1926-27 1927-28 1028-29 1929-30 1930-31 1931-32 1932-33 1933-34 1934-35 1935-36	1,275-15 1,209-84 1,269-51 1,268-86 1,269-13 1,270-37 1,260-67 1,269-59 1,269-73 1,269-28 1,269-06	11,11,42,506 11,21,55,400 11,31,64,601 11,37,73,403 11,46,6,973 11,67,31,011 11,70,59,312 11,74,82,760 11,97,20,921 11,98,25,933 11,98,38,834 12,07,16,181	1 85,46,213 1,93,44,485 2,06,09,009 1,89,58,909 1,83,47,300 1,80,56,186 1,77,30,951 1,81,52,572 1,91,52,759 1,92,41,086 1,98,21,745 2,10,77,017	1,00,11,900 1,18,65,113 1,29,66,541 1,09,15,270 1,07,40,730 93,77,856 95,76,443 99,38,909 1,07,97,237 1,06,48,581 1,08,92,326 1,20,88,280	+17,200 ; 1,43,295 +1,39,935 +1,23,643 +1,43,624 +51,015 +39,570 —2,611 +23,530 —22,305 +18,435 +27,863 +43,609	1	1,07,84,802 1,16,23,512 1,20,05,048 1,35,66,032 1,15,81,210 1,13,34,106 98,87,633 98,74,971 1,02,56,531 1,10,77,045 1,08,35,320 1,10,76,981 1,22,67,795	10·37 10·70 10·98 10·18 9·88 8·54 1·45 8·73 9·14 9·24	280 293 312 287 293 274 208 275 290 291 300 319	41.16 38.66 37.37 42.43 44.48 48.06 45.99 45.25 43.62 44.66 45.05

2. BENGAL AND NORTH-WESTERN RAILWAY SYSTEM—contd.

(b) Tirhoot railway (3' 33" gauge)—

Progress in opening-

Sec	tions o	f railw	ay.				Date of opening.	Miles.	Total.	Grand tota
	1				1		2	3	4	5
lain line—										
Sunepore to Hajipur							1-8-87	3 · 23		
Hajipur to Bachhwara			•	•			1-4-00	44.32		
Bachhwara to Barauni Junction		•	•	•	•	•	1-5-83 1-3-00	10.05		
Barauni Junction to Thana Bihpu Thana Bihpur to Katareah		•	•	•	•	•	1-2-01	66·17 17·71		
Katareah to Kursela	:	:	:	:		·	10-7-02	3.75		
Kursela to Katihar Junction .	•	•	•	•	•	•	7-3-01	24'36	169.59	
ranches and Extensions									<u>.</u>	-
Hajipur-Muzaffarpur branch— Haj pur to Muzaffarpur						,	26-10-84	32.97		
Semaria Ghat extensions— Barauni Junction to Semaria Gha	ıt.						1-5-83	8.80	32.97	
Bachhwara-Bagaha branch- Bachhwara to Dalsing Saiai							1-5-83	6.10	8-80	İ
Dalsing Sarai to Samastipur .	:	:	÷	•	:	:	1-11-75	14.75		İ
Samastipur to Muzaffarpur .	•	•		•			24-2-77	31.50		Ì
Muzaffarpur to Motihari	•	•	•	•	•	٠,	1-2-83	50.18		}
Motihari to Bettiah Bettiah to Narkatiaganj	•	•	•	•	:	•	20-12-83	27·06 22·58		ļ
Narkatiaganj to Bagaha		:	:	:			1-5-07	24.85		[
Bagaha to Gundak bridge East be	nk .	•	•	•	•	•	9-8-12	0.30	177.32	
Hajipur extension—										
Happur to Hajipur Ghat	•	•	•	•	•	•	26-10-84	1.89	1.89	
Raxaul branch— Sagauli to Raxaul							1-3-09	17 · 87		1.
		_		·					17.87	
Samastipur-Darbhanga-Narkatiagan		-					1 11 76	00.40		
Samastipur to Darbhanga	•	•	•	٠	•	•	1-11-75 1-7-90	23·12 42·11		1
Sitamarhi to Riga	:	•	:	:	:	:	1-1-91	5.75		1
Riga to Dhang			•			•	1-7-91	7.00		
Dhang to Bairagnia Bairagnia to Narkatiaganj .		•	•	:	:	:	1-3-92 20-12-07	5 · 24 59 · 09		
Bhikna-Thoree branch— Narkatiaganj to Bhikna Thoree .							10.0.00	50.10	142.31	,
	•	•	•	•	,	•	12-2-06	22.13	22.13	
Darbhanga-Bhaptiahi branch- Darbhanga to Jhanjharpur							1-2-83	23.66		
Jhanjharyur to Ghogardiha .			•	•			8-4-86	13.68		
Ghogardiha to Nirmali	•	•	•	•	•	•	8-4-86 15-11-87	6.24		Ì
Anman to Duaptian , .	•	•	•	•	•	•	10-11-87	10.00	53.58	
Jaynagar branch— Sakri to Jaynagac	•						14-1-05	30.20		
Bhaptrahi-Mansi branch—									30.20	
Bhaptiahi to Makhana Bazar . Makhana Bazar to Mansi .	•	•	•	•	•	•	1-3-07 15-12-07	44 · 33 15 · 71		
Baijnathpur branch-	•	•	•	•	٠,	•	10-12-01	10 /1	60.04	ł
Saharsa to Baijnathpur Baijnathpur to Dauram Madhepu	ra .	,	:	•	•	:	15-3-08 4-10-18	4 · 55 4 · 45	_	
Monghyr branch-							1		9.00	
Sahebpur Kamal to Monghyr Gha	t.						7-3-00	4.28		1
Bhagalpur branch— Thana Bihpur to Mahadeopur Gh	. 4						10 10 01		4.28	
Mahadeopur Ghat to Barari (Stea	mer se	rvice)	•	•	•	•	16-12-01	11.59		-
Barari to Bhagalpur Kachery .				:	:	:	15-3-06	3:50		
Bhagalpur Kachery to Bhagalpur Barari to Barari Ghat	station	n, E. I	. Ry.	•	•	•	23-12-10	1.44		
Samaslipur-Rusera-Khagaria extensi	on	•	•	•	•	•	1-12-18	0.21	10.74	
Samastipur to Rusera Ghat .				•			21-12-12	17.72	16.74	
Rusera Ghat to Hasanpur Road. Hasanpur Road to Khagaria.	•		•	:	•	:	7-5-15 1-11-15	10·81 24·27		
•									52.80	_]
	3	COTAL	OPEN :	MILEA	Œ				••	799.52
DOUBLE LINE										
Barauni Junction to Bachhwara							22-9-06	10.05	10.05	ì

2. BENGAL AND NORTH-WESTERN RAILWAY SYSTEM-contd.

(b) Tirhoot railway (3' 3\frac{3}{8}" gauge)—concld.

Details of construction-

Permanent-way.—The main line from Hajipur to Katihar, and branches from Barauni Junction to Semaria Ghat (3.49 miles), Thana Bihpur to Mahadeopur Ghat, Khagaria to Hasanpur Road Bachhwara to Bettiah, Bettiah to Bagaha, Bagaha to Narkatiaganj, Narkatiganj to Darbhanga, Muzaffarpur to Sonepur, Samastipur to Hasanpur Road, and Samastipur to Bairagnia, are laid with 50-lb. steel rails mostly on sâl sleepers. The rest of the line is laid with 414-lb. steel rails.

Ballast.—The line, except the Bhikna-Thoree branch, is ballasted with kunkur or broken brick.

Fencing.—The line, except new branches, is fenced with stone posts and 4 wires.

Curves.—The sharpest curve, which is on the main line, is of 2,000 feet radius.

Gradients.—The ruling gradient of the line is 2 in 300, except on 3.42 miles between Samastipur and Pertabganj, where the gradient is 1 in 200 and on the Bhikna-Thoree branch where it is 1 in 80. On various river ghat lines the gradients are steeper.

Contracts— As noted under Bengal and North-Western railway.

Etatistics of working.—(Those for the periods prior to 1905 will be found in Appendix 38 to the Railway Administration Report for 1907).

Note.—From the year 1936-37 the net earnings/working expenses have been arrived at after taking into account the 'Appropriation to Depreciation Reserve Fund' instead of actual expenditure on 'Replacement and Renewals' previously accounted for.

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year. i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings,	Net carnings.	Interest divided in the ratio of gross earnings.	Payment made to the Bengal and North-Western Railway Company for working the line.	Total income.	Percent- nge of total in- come on total capital outlay given in column 3.	Interest.	Gain to the State pertaining to each year.	Earn- ings per mile per week.	Proportion of expenses to earnings.
1	2	3	1	5	G	7	8	9	10	11	12	13
	Miles.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	
1905 .	565.45	6,21,36,962	61,81,754	35,95,050	-37,627	1,69,446	33,87,977	5.45	23,54,563	10,33,414	190	42.45
1906 - 1907 - 1908 - 1909 - 1910 - 1911 1912 - 1st gr	614·30 763·56 774·69 776·13 769·04 791·51	6,73,40,339 7,19,99,253 7,33,81,580 7,42,61,067 7,46,12,530 7,56,16,782 7,82,44,847	66,80,324 75,39,243 81,68,953 75,53,873 83,14,066 89,15,376 98,30,665	38,97,310 42,21,002 44,81,501 40,09,582 48,01,820 52,68,260 64,73,034	+9,028 +25,044 -45,015 -31,817 -58,810 -41,140 -38,037	2,01,060 2,04,275 1,58,939 58,411 2,01,276 2,35,109 3,09,961	37,05,278 40,41,771 42,77,547 39,19,354 41,41,734 49,92,011 61,25,036	5.50 5.61 5.83 5.28 6.09 6.60 7.83	23,17,307 23,80,668 24,68,465 24,73,136 24,92,047 25,53,319 26,48,419	13,87,971 16,61,103 18,09,082 14,46,218 20,49,687 24,38,692 34,76,617	189 192 204 188 206 223 239	41.52 43.68 45.14 46.92 42.24 40.91 34.15
of 1913 1913-14 1914-15 1915-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1923-24 1924-25	791·51 788·46 825·62 812·06 804·00 818·96 815·24 814·92 811·37 813·03 814·85	7,86,99,931 8,07,86,397 8,17,15,012 8,13,00,448 8,00,18,533 8,01,19,133 7,98,35,468 8,10,81,021 8,20,77,000 8,32,66,909 8,52,78,159 8,74,73,739 8,86,17,734	26,02,230 1,02,64,997 95,03,765 93,11,906 98,92,580 93,07,091 1,08,42,111 1,10,58,285 1,11,78,680 1,23,21,009 1,45,63,790 1,35,69,356 1,49,72,931	16,91,800 64,76,739 58,14,830 56,14,514 61,54,482 53,46,681 67,48,406 60,31,263 59,15,532 67,98,023 79,06,281 76,21,063 79,88,403	-21,676 -1,19,400 -68,754 -85,587 -60,586 -40,938 -26,253 -12,991 -43,097 -63,077 -52,777 -40,800 -77,206	1,37,495 2,96,483 2,53,006 2,34,486 2,69,183 2,19,361 3,13,336 2,56,514 2,47,667 3,19,676 3,19,676 3,49,870 3,68,746	15,32,629 60,60,856 54,93,070 52,94,441 58,24,713 50,86,382 64,08,817 57,61,758 56,24,768 64,15,270 74,80,965 72,30,393 75,42,451	1.95 7.50 6.72 6.91 7.22 6.35 8.03 7.31 6.85 7.70 8.77 8.27 8.51	7,16,614 27,70,371 28,43,125 28,30,356 26,66,899 27,89,261 27,41,480 27,41,480 27,34,818 28,12,212 22,86,124 30,10,978 30,94,679	8,16,015 32,90,485 26,49,945 24,64,085 31,57,814 22,97,121 36,24,168 30,20,278 28,89,950 36,03,028 45,94,841 42,19,415 44,47,772	253 250 232 217 234 223 257 261 204 291 345 328 353	34.99 36.90 38.82 39.71 37.79 42.15 37.75 45.08 44.84 45.71 45.05
1925-26 1926-27 1927-28 1928-29 1929-30 1930-31 1931-32 1932-33 1934-35 1936-37	807.88 809.26 807.10 810.26 806.40 805.86 802.78 802.54 803.51 801.67 799.52	9,12,70,828 9,25,96,007 9,45,08,103 9,55,76,599 9,68,44,204 0,66,94,472 9,64,34,760 9,73,63,640 9,76,66,064	1,63,01,052 1,71,10,676 1,68,61,971 1,73,08,030 1,69,42,632 1,44,16,844 1,37,09,246 1,46,67,572 1,41,13,525 1,52,76,538 1,56,76,208 1,66,64,681	95,91,210 1,01,96,22; 1,04,69,03; 1,04,53,790 98,05,199 75,91,550 72,92,990 81,72,634 78,42,573 81,18,121 79,38,966 80,07,022	[-1,23,643] -1,43,621	5,25,848 5,24,316 5,12,361 4,70,379 3,21,139 2,94,002 3,13,010 1,68,304 1,56,792	89,79,568 1,03,56,290 98,19,546 97,85,850 92,11,823 70,81,601 69,72,986 78,51,077 75,50,112 79,27,886 77,49,881 78,23,769	10.76 10.57 9.75 7.41 7.20 8.12 7.83 8.14 7.94	28,52,191 31,39,855 32,04,043 33,01,680 33,49,1°1 34,50,931 35,46,762 35,77,465 35,76,846 36,01,495 36,36,812 36,50,999	61,27,377 72,16,435 60,15,503 64,84,170 58,62,642 36,30,670 34,26,224 42,73,612 39,73,266 43,26,391 41,13,069 41,72,770	388 407 402 411 404 328 351 338 366 376 401	41·18 38·66 37·92 39·60 42·13 47·34 46·80 44·28 44·43 46·86 51·95

'c) Mashrak Thawe Extension (3' $3\frac{3}{8}$ "). Progress of opening—

	Sections of railway.								Date of opening.	- Miles.	Total.	Grand total.	Remarks.
			1						2	3	4	5	6
Mashrak to Thawe							12-1-31	39-32	39.32	39.32			

2. BENGAL AND NORTH-WESTERN RAILWAY SYSTEM—conclii.

(c) Mashrak Thawe Extension (3' 33" gauge)—concld.

Details of construction-concld.

Permanent-way.—A line from Mashrak to Thawe, 39·32 miles in length was opened on 12th January 1931. The line is laid with 411 lb. steel rails on sal sleepers.

Ballast.-The line is ballasted with broken brick and shingle.

Fencing.—The line is unfenced.

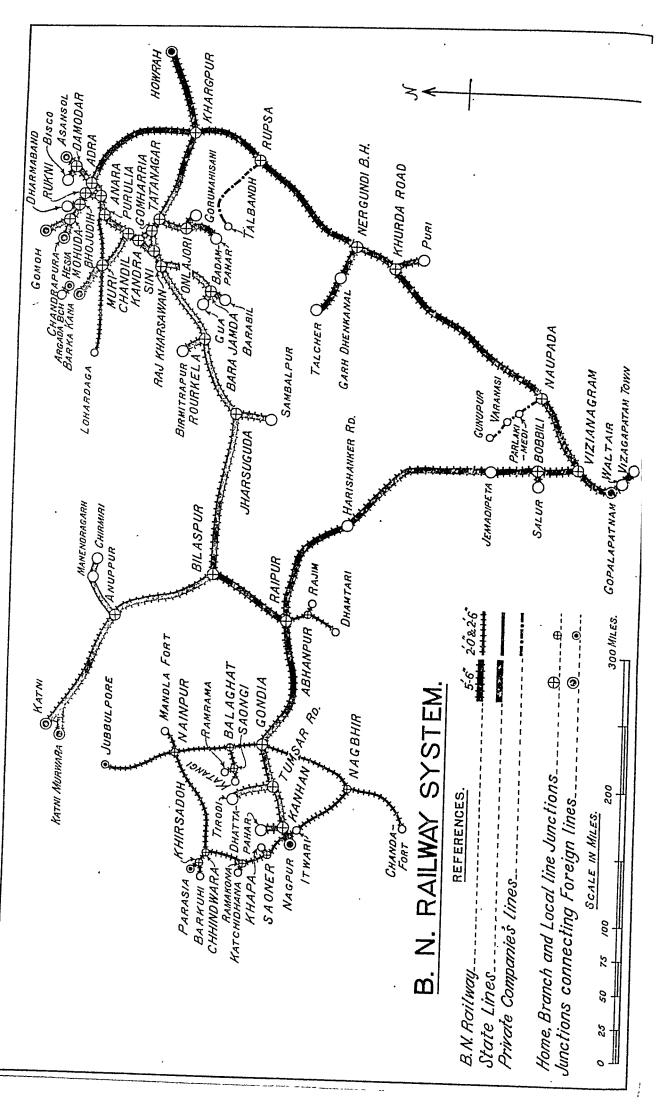
Curves.—The sharpest curve is of 1,500 ft. radius near Sidhwalia.

Gradients.—The ruling gradient is 1 in 1,000 with two exceptions of 1 in 500 at Harkhua and Manjhagarh.

Contracts—
Main Provision of Contract—
As noted under Bengal and North Western Railway.

Statistics of working-

Year.	6	Mileage open at and of each year.	Total capital outlay, including suspense, to ond of each year, i.e., outlay on (i) lines open and (ii) lines open wholly under construction.	Gross earn- ings.	Net earnings	Interest divided in the ratio of gross earnings.	Payment made to the Bengal and North-Western Railway Company for working the line.	Total income.	Percentage of total income on total capital outlay given in column 3.	Interest.	Gain or loss to the State pertaining to each year.	Earnings per mile per week.	Proportion of expenses to earnings.
1	- -	2	3	4	5	6	7	8	9	10	11	12	13
		Miles.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		Rs.			
1930-31	: :	39.32	19,28,740	10,215	5,416			5,416	0.28	1	Rs.	Rs.	
1931-32	. :	39.32	22,89,454	69,910	37,590	1,476]			87,646	82,230	23	46.98
1932-33	. ∣ ;	39.32	23,32,213	1,00,668	55,764	1		39,066	1.71	1,19,164	80,09	34	46.23
1933-34	١,	39·32			1	4,025		59,789	2.56	1,28,020	- 68,231	49	44.61
1934-35	1	1		1,36,467	76,646	1,747		78,393	3.34	1,26,953	-4 8,562	67	44.12
•	i	39.32	23,44,744	1,18,291	64,512	3,496		68,008	2.90	1,21,904	-53,896	58	45.46
1935-36 .	3	39.32	23,56,828	1,21,257	65,127	3,530		68,657	-	1,18,715			
1936-37	3	39.32	23,58,666	1,24,286	70,118	3,738		73,856	l		—50,058	59	46.29
						3,.00	••	73,856	3.13	1,13,879	40,023	61	43.58
			· · · · · · · · · · · · · · · · · · ·		<u></u>								



Chairman.—ROBERT MILLER, ESQ. Managing Director.—Sir T. R. WYNNE, K.C.S.I., K.C.I.E. Offices.—132, Gresham House, Old Broad Street, London, E.C. 2. Date of registration of the Company.—23rd February 1887.

Line; comprised in the system. The Bengal-Nagpur railway system is made up of-

	•	ı	Open line. Miles.	Under constr or sanctions constructi Miles.	d for	Total.
(Bengal-Nagpur railway proper (5' 6" gauge)		2.030.47)	1111001	ALITOS.		Diffee.
(u)\			2,412:07			2,412.07
East Coast railway, Northern section (5' 6" gauge)		321·60 J				
(b) Anuppur-Chirimiri (5' 6" gauge)	٠		53.81	••		53.84
(c) Mayurbhanj Light railway (2' 6" gauge)			70.64	••		70.64
(d) Parlakimedi Light railway (2' 6" gauge)			56.30			56.30
(e) Purulia-Ranchi branch (2' 6" gauge)			116.54	••		116.54
(t) Raipur-Dhamtari branch (2' 6" gauge).			56-94			56.94
(g) Satpura railway (2' 6" gauge)			$625 \cdot 92$			625.92
(h) Tumsar-Tirodi Light railway (2'0 gauge) (Line dismant		•	• •	••		• •
on 15-2-3						
T_0	tal		3,392.25	• •		3,392 • 25
Running powers—					-	
Home line over Foreign lines						
At Katni, Great Indian Peninsula railway						CO:30
for pas	sen	ger and goo	ds trains			1
At Asansol and Katrasgarh, East Indian railway		O 0		, ,	-	1.16
At Howrah, East Indian railway, for passenger trains only .						1.09
Chandrapura to Barkakana, East Indian Railway, for goods to	roin	a Cult		• •	•	54.34
020000000000000000000000000000000000000		.s only	•	• •	•	————
				Total		56.89
Foreign lines over Home lines :						
Great Indian Peninsula railway, Nagpur to Itwari Bazar 1.73 r Katni for passenger trains.	nile	s for goods	s trains, a	and 1.60 mile	s at	3.33
Madras & Southern Mahratta railway, Vizagapatnam to Gopalar	atr	ınm .			_	6.76
East Indian Railway, Jamuniatend to Chandrapura for goods t				•		7-26
· · · · · · · · · · · · · · · · · · ·		· ,		· ·		
				Total		17 · 35
Bengal-Nagpur railway (5' 6" gauge)—						21 00
The state of the s						

ngal-Nagpur railway (5' 6" gauge)—
The Bengal-Nagpur Railway Company was formed in 1887 and took over the Nagpur-Chhattisgarh State railway and constructed other lines, embracing in all a system of railways known as the Bengal-Nagpur railway.

Sections of railw	ау.		Date of opening.	Miles.	Total.	Grand total.	REMARKS.
1			2	3	4	5	6
engal-Nagpub proper—			£				
Main line—							
Asansol to Damodar			12-6-89	4.62			Ì
Damodar to Purulia			14-12-89	46.00			
Purulia to Chakardharpur			22-1-90	71.54			
Chakardharpur to Goilkera			15-5-90	21.17			1
Goilkera to Jharsuguda			1-2-91	104.92			
Jharsuguda to Raigarh			20-4-90	43.35	j .		1
Raigarh to Bilaspur			10-2-90	82.23			
Bilaspur to Raipur			10-1-89	68.79			* These are
Raipur to Raj-Nandgaon			4-12-88	43.13	į i		dates of open
Raj-Nandgaon to Nagpur		• •	1880, '81 & '82*	‡144·20			in sections of
Adra avoiding line			24-3-24	2.23	1		original 3'
Kandrra-Gomharria Chord			2-12-19	6.42	Į.		gauge line, wh
Anara-Rukni Chord			3-5-20	5.00			was converted
Chetudih-Dharmaband and	K narkhar	Cnord	18-2-27 & 9-12-27	§3·87	Į i		the 5' 6" gar
			1		1		and reopened
Butanata			1				the 27th Nove
Extensions—	_1		0.000	2.10	647.47		ber 1888 (142
Matyala B. H. to Garh Dhr	ubesnwar		2-9-26	2.19			miles).
rancnes— Gua Branch—			1		2.19		
	D	•	17.00		1		‡ Increase of 2
Raj Kharsawan Junction to Dangoaposi to Gua.	Dangoapo	81 -	17-1-24	45.91	i i		miles due to tra
Barabil Branch	•		20-2-25	18.82			fer of length
Darabii Branch .		•	16-2-26	4.35			Kandri siding fr
Birmitrapur Branch -			İ		69.08		Kanhan to Dat
Rourkela to Koel Bank			17-9-26	0.00			pahar Section, 1
Koel Bank to Birmitrapur	•	•		2.28			decrease of 0
Roes Dank to Diffuttapur	• •		21-1-22	15.61	17.00		miles as per act
Sambalpur Branch-					17.89		remeasurement
Jharsuguda to Sambalpur			1-2-93	00.00			§ 0.73 miles sid
Katni Branch—			1-2-53	29.88	00.00		converted i
Bilaspur to Birsingpur			1-2-91	141.70	29.88		main line.
Birsingpur to Umaria	• •		11-5-90		l		This line
Umaria to Katni .	• •	•	2-11-86	18.48	l		constructed
Katni to Murwara Junction	• •	•	1-1-01	36.58	1	l	the Panposh F
ALACIM CO MILITAGA O UNCHON	•		1-1-01	0.56	707-00	}	pur Ry. Co.
					197:32	ļ	was acquired
	Carried ove	+			963.83		Govt. and tal
•		• •	•••		809.93		over by B. N. I Co. from 1-4-23

Transferred for working as an integral part of the Bengal-Nagpur railway from the 1st January 1901.

(a) Bengal Nagpur Railway (5' 6" gauge)—contd. Progress in opening—contd.

Sections of railway.	I	ate of opening.	Miles.	Total.	Grand total.	REMARKS.
1		2	3	4	ō	6
Brought forward	$\cdot $			963.83		
Branches—contd. 1ipur-Vizianagram Railway—				ļ		
Parvatipuram to Jamedipeta	• [31-3-30	19.75			
Jemadipeta to Rayagbada	:	12-4-30 31-3-31	$9.47 \\ 11.79$	•	ŀ	
	,]	0.53	ļ	1	
Length from centre of Parvatipuram station to en- of yard which has been opened as part of Mai Line.			0.03			•
Raipur to Jonk	•	15-11-29	65·87 25·55			
Jonk to Harishanker Road Harishanker Road to Titilagarh		30-3-30 30-9-30	34.81		l	
Titilagarh to Theruvali R. V. Railway entry line at Raipur	• [20-12-31	74·01 0·36	-		
Vizianagram to Bobbili	:	16-5-30 24-12-08	33.24		ļ	
Bobbili to Parvatipuram	•	8-3-09	14.76	290.44	ì	
Tumsar-Tirodi B. G. Conversion— Tumsar Road to Tirodi	.	1-9-29	29.32	29.32		
dumna-Itwari-Nagpur Section-		. }-		- 1	Ì	
Kalumna to Nagpur via Itwari	•	15-3-11	3.84	3.84		
Kanhan to Dhattapahar		26-9-07	14.76	14.76		
inctoria Coal Branch— Damodar to Sanctoria Collieries	. 1	12-6-89	8-11		l	
	1	22-0-08	٠ ا			
aurashi Branch— Ramkanali to Nadiha Colliery Siding No. 7		1-2-03	8.51	8.11	1	
ilcutta Extension Main Line—	1].		8.51	1	
Sini to Khargpur		1-6-98 17-12-98	98·40 44·62	}	1	
Dman Khal Bridge to Rajapur Khal		24-5-00	16.84	[1	
Rajapur Khal to Tikipara (Howrah)	•	14-12-00	16.92	176.78		
Fort Gloster Branch	. 1	. d	1.56	110.19		
East Rupnarain Bank Kidderpore Port Line	. []	1900-1917	0·81 0·63	ļ	1	
-	را .	니.		3.00		
alculta Extension Branches— Shalimar Branch —	Ì	1	1		1	
Santragachi to Shalimar		15-3-01	3.15	3.15		
atan ujar-Gorumahisani Branch—				1		
Tatanagar to Onlajori		1-2-11	34.18	1	1	
Onlajori to Gorumahisani	•	6-4-11	6.00		{	
Onlajori to Badampahar (including Salapet Branch).	23-10-22	21.30			
utlack Extension Main Line-	ļ	Į		61.54	1	
Khargpur to Balasore		17-12-98	70.58	[ļ	
Balasore to Cuttack	.	10-1-99	110.41	180.99	1	
ranches-				190.99		
Nergundi Block Hut to Talcher		20-1-27	61.52	61.52	1	
haria Extension Main Line-	-			01-02	}	
Khargpur to Cossye River Right Bank of Cossye River to Midnapur	•	20-12-99	5.18	}	j	
Midnapur to Bhojudih	: {	8-6-01 1-2-03	2·13 114·95	ļ		
Phojudih to Gomoh (via Talgaria) Sudamdih Block Hut to Bhowrah Block Hut	•	1-1-07	25.98			
Mohuda avoiding line		17-2-14 10-7-26	$\begin{array}{c c} 2 \cdot 06 \\ 1 \cdot 01 \end{array}$			
Branches and Extensions on Jharia Coalfields— Bhojudih-Bhaga-Mohuda Loop—				151-31]	
Bhojudih to Bhaga		20-4-03	7.45	İ		
Bhaga to Malkera . Malkera to Mohuda		1.9.03	8.78			
• • • •	•	15-6-04	3.15	19.38		
Bhowrah Branch	•	14-5-06	2.96			
Bhojudih-Pathardih Link	İ	1-2-06		2.96	, }	
Katras Connection—		$\left\{\begin{array}{c} 1.2.06 \\ 10.1.15 \end{array}\right.$	0.84			
Malkera to Katras		24-8-03	0.60	0.84	1	
Khanoodih to Katras	•	1-1-07	1.91		,	
Murulidih Branch-				2.51		
Mohuda to Murulidih Collieries	•	1-1-07	3.66	3.66		Ĭ
Jamadoba Loop		16-9-03	5.29	1		
Jeetpur Connections between Bhowrah Branch an Jamadoba Loop.	d	26-11-26	1.28			1
Kendwa Branch		10-10-99	2.50	6.57 2.50	1	
Aldih Branch				-\		
	•	1-2-06	2.54	2.54		ļ
Carried over .			<u>-</u>	1,998.06		

(a) Bengal-Nagpur Railway (5' 6" gauge)—contd.

Progress in opening—concid.					
Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	REMARKS.
1	2	3	4	5	6
. Brought forward		••	1,998.06		
Bokharo Ramgarh Extension— Section I.—Mohuda to Chandrapura Chandrapura to 1.24 miles of Chandrapura (E. I.	27-11-13 1-4-15	9-10			
Railway Boundary). Section II.—Barkakhana to Chandil Connection of B. N. and E. I. Railways at Nunudih Link—	31-3-27	71.60	9·10 71·60		
B. N. Railway's own Line	5-3-15 5-3-15	0·90 0·46	1.36		
Bobbili Salur Branch— Bobbili to Salur	1.510	20.05	70.05		
TOTAL OPEN MILEAGE, BENGAL-NAGPUR RAILWAY PROPER.	1-5-13	10.35	10.35	2,090.47	
EAST-COAST RAILWAY, NORTHERN SECTION— Main line— Cuttack to Bhubaneswar	1-2-97	17.00			,
Bhubaneswar to Khurda Road Khurda Road to Rambha	20-7-96	17·20 11·48			
Rambha to Berhampore (Ganjam)	1-3-96 1-9-95	61·86 29·54			
Berhampore (Ganjam) to Palasa	. 1-4-95 17-12-94	45.99 15.40			
Naupada to Vizianagram Vizianagram to Waltair and Gopalapatnam (including wharf).	20-9-94	72·94 40·35	294.76		
Branches					
Puri branch— Khurda Road to Puri	1-2-97	26.84	26.84		
Total East Coast Railway, Noetheen Section			••	321.60	
Grand Total open Mileage, Bengal-Nagpur Railway 5'6' gauge.				2,412.07	
•				İ	
Double Line—					
Birgal Nagrur Railway Proper— Khargpur District—					
Howrah (Tikapara) to Santragachi	2-12-00 17-6-02	3·70 10·24			
Bauria to Khargpur	\begin{cases} \{ 15.3.07 \\ 22.9.28 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	56·62 0·12			
Rupnarian Bridge	23-3-33 15-3-01	0·52 3·15			
Khargpur to Cossye Bridge	28-7-24 13-1-28	5·18 1·37	80-90		
Chakardharpur Disrtrict— Sini to Chakardharpur	25-1-24	21.93			
Chakardharpur to Goilkera	28-5-25 25-4-27, 28-12-27	20.62			
Khorkai Bridge to Tatanagar	and 24-12-29 14-6-32 19-11-23	2·18 4·11	65-18		
Nagpur District— Kamptee to Kalumna	16-9-26		4.29		
<u>-</u>	10-5-20	4.29	4.29		
Adra District— Kargali to Gowai	26-10-22	7.38	1		
Gowai to Bhojudih Bankura to Adra	29-9-25	1.62			
Danatr to Aura	4-1-16	33.17	42.17		
Anara-Kandra Branch—					
Anara to Purulia Purulia to Tamna	21-3-24 19-11-24	16·00 4·25			
Tamna to Kantadih	12-4-24	4.91			
Kantadih to Nimdih Nimdih to Kandra	26-7-24 18-11-24	19·00 14·26	58-42		
Titilagarh District—		<u> </u>			
Gopalapatnam to Waltair	1-4-21	3.88	3.88		
Total Double Line	••	••	••	254.84	
	1	l		<u> </u>	

a) Bengal-Nagpur railway (5' 6" gauge)—contd.

Details of construction-

- Permanent-way.—The line is laid with 75-lb., 85-lb. and 90-lb. steel rails on transverse wooden, steel and cast iron pot sleepers.
- Ballast.—The line is ballasted throughout with stone, except between Khargpur and Garbetta where laterite is used.
- Fencing.—The line is fenced only between Nagpur and Kamptee and at the more important stations also at some of the station yards and first class level crossings on the Barang-Waltair section.
- Curves.—On the main line there are no curves sharper than 1,000 feet radius.
- Gradients.—The ruling gradient between Asansol and Nagpur, and Bilaspur and Katni is 1 in 100; between Sini and Khargpur, 1 in 125; between Khargpur and Waltair, 1 in 150; between Khargpur and Howrah, and Khurda Road and Puri, 1 in 200; and 'between Midnapore and Bhojudih, 1 in 200 in the down direction, and 1 in 125 in the up direction; and between Vizianagram and Parbatipuram, 1 in 125. On the Gua branch it is 1 in 60 and between Bermo and Barkakhana 1 in 100; and between Barkakhana and Chandil it is 1 in 200 compensated for curves. On the Talcher coalfield branch it is 1 in 100 compensated with the loads, i.e., towards Nergundi and 1 in 150 against the loads.

Contracts-

- Dated the 9th March 1887 (called the original contract), between the Sceretary of State and the Bengal-Nagpur Railway Company, as to taking over certain State railways and the construction of other lines, and their management, maintenance and working.
- Dated the 31st December 1891 (supplemental to the contract of 1887), between the Sccretary of State and the Bengal-Nagpur Railway Company, as to the construction and working of the Sambalpur Branch railway.
- Dated the 27th June 1901 (called the Debenture contract, supplemental to the contract of 1887) between the Secretary of State and the Bengal-Nagpur Railway Company, as to the issue of debentures.
- Dated the 23rd January 1902 (supplemental to the contract of 1887), between the Secretary of State and the Bengal-Nagpur Railway Company, as to the construction of certain new lines and the working of the Northern section of the East Coast railway.
- Dated the 28th April 1903 (supplemental to the contract of 1887), between the Secretary of State and the Bengal-Nagpur Railway Company, as to the adoption of 1s. 4d. per rupee as the "prescribed" rate of exchange. [Cancelled as from 1st October 1921 by the contract of 19th November 1923.]
- Dated the 22nd February 1910 (supplemental to the contracts of 1887, 1891, 1901, 1902 and 1903), between the Secretary of State and the Bengal-Nagpur Railway Company, as to the construction of certain further extensions and branch lines in connection with the Company's undertaking and to certain questions under the contract of 1902.
- Dated the 5th November 1912 (supplemental to the contracts of 1887, 1891, 1901, 1902, 1903 and 1910), between the Secretary of State and the Bengal-Nagpur Railway Company, as to certain modifications of the original contract of 1887 as varied by the several supplemental contracts.
- Dated the 4th March 1914 (supplemental to the contracts of 1887, 1891, 1901, 1902, 1903, 1910 and 1912), between the Secretary of State and the Bengal-Nagpur Railway Company, as to the adoption of the Government financial year for the preparation of accounts.
- Dated the 16th July 1923, between the Secretary of State and the Bengal-Nagpur Railway Company for the maintenance, management and working of the Mayurbhanj railway and the Baripada-Talbond Extension.
- Dated the 19th November 1923 (supplemental to the above quoted contracts), between the Secretary of State and the Bengal-Nagpur Railway Company, as to compiling accounts and Statistics annually instead of half-yearly, and as to rate of exchange.
- Dated the 24th November 1927 (supplemental to the above quoted contracts) between the Secretary of State and the Bengal-Nagpur Railway Company as to the construction and working of certain branch lines.
- Dated the 14th May 1929 (supplemental to above quoted contracts) between the Secretary of State and the B. N. Ry. Company, as to rate of exchange.
- Dated the 2nd May 1930 (supplemental to the above quoted contracts) as to the taking over of the Jamuniatand-Chandrapura Line from the 1st April 1928.

Main provisions of contracts-

- (i) Land.—Provided by the Government at the cost of capital.
- (ii) Government aid.—Guarantee of interest at 4 per cent. per annum in sterling on the Company's ordinary capital of £3,000,000 up to the 31st December 1913. Thereafter on this ordinary capital and on any further ordinary capital that may be required, the guarantee to be 3½ per cent.

a) Bengal-Nagpur railway (5' 6" gauge)—contd.

Main provisions of contracts-concld.

- (iii) Distribution of profits-
- (A) Up to 31st December 1913.—The net earnings for any complete calendar year up to December 1912 and thereafter for any complete financial year, after providing for :—
 - (a) payment to Government of interest on advances made by Government for capital expenditure on the Company's extensions and on over-drafts of capital in connection with open line capital expenditure, at 3½ per cent per annum up to and including 30th June 1909, and thereafter at 3¾ per cent. per annum (except for advances of capital expenditure on the Company's old extensions, interests on which continued to be paid at 3½ per cent. per annum).
 - (b) repayment of interest paid by Government to the Company for that year, and
 - (c) payment of interest on capitalized interest under clause 21 of the supplemental contract dated 23rd January 1902,

are divided in the ratio of 3ths to the Government and 4th to the Company, if the ordinary capital of £3,000,000 is not increased before that date. If the said capital is increased, the Company's share of surplus profits shall be increased by the fraction which shall bear to one-fourth the same proportion as the additional capital bears to the existing capital of £3,000,000.

As from 1st January 1901, interest at 3½ per cent. per annum on the capital expended by the Government on the Northern section of the East Coast railway, is a charge against the net earnings of the Company's undertaking, and the ½th share of surplus profits formerly payable to the Company is further divisible between the Government and the Company in the proportion which the gross earnings of the Northern section of the East Coast railway bear to the gross earnings of the remainder of the Company's undertaking.

- (B) From 1st January 1914.—With effect from the 1st January 1914, the net earnings attributable to the two half-years of a financial year, less—
 - (a) interest (not charged to capital under the provisions of the contract of 22nd February 1910) on debentures or debenture stock of the Company,
 - (b) guaranteed interest on Company's open line capital, and
 - (c) interest at 3½ per cent. on the Secretary of State's open line capital,

shall be divided between the Secretary of State and the Company in the ratio of the average amount during the year of the Secretary of State's open line capital and the Company's open line capital, in accordance with the contract of the 5th November 1912.

- (iv) Rates and fares.—The Government to authorise maximum and minimum rates, and prescribe the various classes of passengers and goods as well as the extent to which, within the maxima and minima, the Company may vary the rates in respect of distance, weight or special conditions.
- (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—To be conveyed on the same general conditions as those in force on State railways of the same gauge and at rates to be approved by Government.
 - (b) Government bullion and coin and the persons in charge thereof.—To be carried at special rate approved by Government.
- (vi) Fower of the Government to determine contract.—The railway and its appurtenances are declared to be absolutely the property of the Government, which may determine the contract on the 31st December 1950 or on the 31st December of any succeeding fifth year by giving to the company in England twelve months' previous notice in writing.

On the termination of the contract the Company is to hand over to the Government the railway and all its belongings of every description, and the Government are to repay the amount at par of the share capital which has been paid in by the Company.

The contract for the Sambalpur branch brings this branch within the provisions of the original contract of 9th March 1887, but provides that the Government may purchase the branch at any time after 1st January 1895, on giving twelve months' notice.

The contracts of 23rd January 1902 and 22nd February 1910 provide for the construction, maintenance and working of the new lines as part of the Company's undertaking, and are to remain in force until the original contract of 1887 shall be determined.

- (vii) Power of the Company to surrender contract.—Nil.
- (viii) Term of contract [if not determined under (vi) or (vii)].-None specified.

(a) Bengal-Nagpur railway (5' 6" gauge)—concld.
Statistics of working. (Those for the periods prior to 1888 will be found in Appendix 38 to the Railway Administration Report for 1907).—

Includes the Northern section of the late East Coast railway, the Satpura railway, the Purulia-Ranchi and Raipur-Dhamtari branches and the Tumsar-Tirodi Light railway.

The Statistics of working of the Purulia-Ranchi and Raipur-Dhamtari branches and the Satpura Railway are also shown separately in tables (e), (f) and (g) respectively.

Note.—From the year 1036-37 the net earnings/working expenses have been arrived at after taking into account the 'Appropriation to Depreciation Reserve Fund' instead of actual expenditure on 'Replacement and Renewals' previously accounted for

	Jr.											
Year.	Mileage open at end of each year.	Total capital outlay, in- cluding sus- pense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partity or wholly under construction.	Gro«s carnings.	Net earnings.	Percent- nge of net carn- lnrs on total capital outlay given in column 3.	Payment on ac- count of rebato, ctc., to branch lines worked.	Interest,	Company's share of surping profits (bared on terms of contract) attributable to each year.	Percentage of Company's share of net carnings (surplus profits Plus guaranteed interest on share capital) on Company's	Gain or loss to the State Pertaining to each year.	Earn- ings per mile per week.	Proportion of expenses to earnings
1	2	3	4	5	6	7	8	0	capital.	11	12	13
	Miles.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.		Rs.	Rs.	
1888 . 1880 . 1890 .	224.20 348.18 580.01	5,23,92,291 7,08,75,456 8,14,66,762	15,83,293 20,40,944 28,64,578	5,17,431 4,03,160 5,47,463	0.99 0.57 0.47	::	23,62,047 29,06,361 33,88,852	::	::	-18,45,496 -25,03,204 -28,41,380	136 112 94	67:32 50:25 60:89
1891 . 1892 . 1893 . 1894 . 1805 .	831.58 831.58 862.33 860.88 860.38	9,08,04,164 9,56,14,736 9,60,08,424 9,81,73,789 9,88,94,777	54,57,356 60,83,562 64,17,751 66,00,648 68,74,740	26,84,453 30,08,166 32,62,220 32,58,414 35,41,444	2.90 3.05 3.33 3.32 3.58	::	35,05,076 30,05,345 43,97,504 45,83,993 48,56,800	::		- 8,21,223 -8,97,179 -11,35,374 -13,25,579 -13,15,356	126 141 144 149 153	50.81 50.55 49.17 51.30 43.42
1806 1807 . 1808 . 1809 1900 .	860.88 860.88 1,067.41 1,190.16 1,284.35	11,05,30,319 13,04,58,784 14,07,03,520 16,05,00,365 17,41,74,604	03,68,525 05,00,300 62,79,103 90,78,460 1,20,75,223	29,27,869 29,79,659 33,63,854 47,21,814 77,13,050	2:65 2:28 2:20 2:83 4:43	::	48,27,504 51,35,240 54,23,186 59,75,853 64,90,637	1,83,501		-18,99,635 -21,65,681 -20,59,332 -12,54,039 +10,38,822	142 138 124 147 104	51.03 51.04 £1.10 47.00 40.56
1901 . 1902 . 1903 . 1904 . 1905 .	1,600.22 1,602.24 1,815.65 1,965.68 1,980.47	21,28,65,061 23,05,09,658 24,07,58,040 26,14,35,453 27,33,72,570	1,30,77,769 1,42,18,227 1,55,47,702 1,80,12,137 2,44,70,000	61,48,648 60,37,742 70,45,255 95,87,326 1,34,04,052	2.80 3.01 2.82 3.67 4.90	::	79,88,163 85,44,311 89,66,131 95,41,624 1,00,32,318	6,67,100		-18,39,515 -16,06,569 -19,20,876 +10,45,702 +27,04,634	156 170 165 185 238	52.03 51.21 54.69 49.31 45.22
1906 . 1907 . 1908 . 1909 .	1,006.50 2,113.35 2,300.86 2,348.63 2,395.30	28,40,48,582 30,01,00,534 32,39,77,888 33,91,49,381 31,75,01,060	2,60,47,181 2,80,80,537 2,71,55,060 2,87,72,437 8,08,62,867	1,41,51,252 1,48,46,149 1,14,06,071 1,31,42,676 1,50,32,327	4.07 4.80 3.52 3.83 4.33	::	1,03,41,779 1,08,35,645 1,12,34,516 1,16,99,565 1,20,04,393	7,89,837 9,21,460 2,93,048 6,22,284	::	+30,10,636 +30,80,144 +1,72,453 +11,50,063 +24,05,650	250 263 227 230 248	47:49 48:77 57:99 54:32 51:28
1911 1912	2,488·92 2,489·92	35,50,06,842 36,36,14,944	3,30,70,044 4,02,02,849	1,68,21,823 2,18,48,626	4·73 6·01	::	1,22,61,552 1,24,78,206	0,63,507 20,44,679	0:14 8:54	+35,00,764 +73,25,641	262 311	. 50°44 45°70
1st qr. of 1013 1918-14 1914-15 1916-16 1916-17	2,480 · 02 2,673 · 32 2,670 · 82 2,683 · 66 2,738 · 15 2,741 · 00	30,80,24,074 38,74,52,167 40,20,55,383 40,76,70,217 40,00,06,116 41,38,74,577	1,15,26,259 4,20,50,348 4,10,00,804 4,43,73,284 5,12,28,422 5,63,92,542	59,47,752 2,15,05,714 2,03,23,627 2,26,25,105 2,65,02,617 8,01,32,863	1.61 5.55 5.05 5.66 6.40 7.28	::	31,56,237 1,34,01,030 1,43,12,277 1,47,70,386 1,47,55,302 1,57,70,715	5,82,674 14,09,335 8,32,616 10,04,706 15,05,201 20,22,026	2.20 7.20 5.35 5.03 7.04 7.90	+22,03,841 +66,04,449 +51,72,734 +67,61,013 +1,02,42,144 +1,23,40,122	35 30 29 31 35 39	48.40 49.87 50.43 49.01 48.09 40.57
1925-26 1926-27 1927-28	2,732 '44 2,732 '46 2,734 '24 2,745 '57 2,765 '05 2,844 '00 2,850 '10 2,905 '18 3,046 '10 3,046 '82 2,902 '48	42,01,04,651 44,88,17,294 45,99,72,904 53,38,30,270 57,16,21,258 00,51,97,853 60,58,03,67 68,47,91,908 70,18,07,684 71,61,07,337	0,20,86,778 0,57,56,072 0,42,66,227 6,77,00,233 7,60,76,669 7,60,21,353 8,81,16,537 8,41,55,008 8,31,52,004 0,16,23,4 0,18,56,376	3,13,17,280 2,72,60,622 2,18,82,116 1,92,95,929 2,73,68,561 2,69,71,096 2,90,80,712 3,15,83,900 9,50,92,678 3,54,93,361 2,30,95,882	7:45 0:07 4:47 3:61 4:79 4:46 4:74 5:12 5:00	24,399 24,833 1,43,873 32,375 35,856 21,096 10,453 24,000	1,50,50,850 1,75,41,657 1,73,69,008 2,28,40,157 2,43,93,910 2,60,27,552 2,60,00,280 2,86,00,575 2,86,00,575 2,95,27,480 3,00,10,075 8,22,63,109	20,25,686 14,02,055 6,64,109 6,13,916 4,97,494 0,16,830 6,92,128 8,71,128 7,47,583 7,46,511	8.00 0.16 4.05 3.50 4.83 4.48 4.57 4.67 4.67 4.78 4.78	+1,30,40,744 +82,50,010 +38,33,841 -35,60,070 +22,11,850 +41,13,77,737 +21,70,109 +40,70,374 +41,10,250 -03,87,027	45 45 47 520 528 559 557 524 575 589	49.56 53.64 65.95 71.50 64.03 65.43 62.47 57.80 61.23 74.20
1931-82 1932-33 1933-34 1934-35 1935-36	3,231·69 3,230·97 3,215·39 8,211·50	74,16,50,500 75,75,58,655 76,77,25,360 70,09,05,062 77,13,60,858 77,45,41,433 77,75,04,423 77,83,53,405	6,00,76,023 7,57,90,873 8,08,82,106	1,48,59,361 1,71,54,277 1,11,68,505 1,82,66,507 2,22,18,789 2,38,60,781 2,64,82,147 1,71,58,543	2.00 2.26 1.46 2.53 2.88 3.08 3.41 2.20	52,258 48,704 60,353 —16,463 95,028 51,574 69,883 58,244	3,22,13,293 3,48,77,808 3,64,03,406 3,64,50,271 3,45,03,299 3,35,68,554 3,30,80,404 3,22,77,738	::	3.50 3.11 3.11 3.11 3.11 3.11 3.11	-1,74,00,100 -1,77,72,325 -2,43,41,314 -1,71,83,211 -1,24,00,538 -97,50,347 -06,68,140 -1,51,77,439	572 401 427 415 450 482 517 498	83.98 78.80 84.52 73.91 70.68 70.49 60.50 79.42

NOTE.—In the above table the figures from 1893 to 1915 -16 are exclusive of Tumsar Tirodi Light Rallway and the rest are inclusive.

(b) Anuppur-Chirimiri (5' 6" gauge).—

This is a section of the Central India Coalfields Railway running from Anuppur, a station on the Bilaspur-Katni Branch of the Bengal-Nagpur Railway to Chirimiri to serve Jhagrakhand and Balarpur collieries in the Korea State.

Progress in opening-

	Se	ction	Date of opening.	Miles.	Total.								
			1							1	2	3	4
Anuppur to Bijuri .			•	•	•		•		•		17-6-28	29.61	
Bijuri to Manendragarh				•							25-4-29	10.42	
Manendragarh to Chirimiri	•	•	•	•	•	•		:		.	23-1-31	13.81	53.84

(b) Anuppur-Chirimiri (5' 6" gauge)—concld.

Details of construction-

Permanent-way.—The permanent-way consists of steel flatfooted second hand rails weighing 75 lbs., 85 lbs. and 882 lbs. and have been laid to the extent of 79.4, 12.0 and 8.6 per cent. of the total length respectively. The sleepers are of Deodar and Sal wood each 9' 0" in length.

Ballast.—The ballast consists of broken stones and ashes at 9 cft. per foot run.

Fencing.—The line is unfenced.

Curves.—The sharpest curve has a radius of 573 feet 10°. Ratio of curve to total length of line is 26.81 per cent. and average amount of curvature per mile is 51.37°.

Gradients.—The ruling gradient is 1 in 50 compensated longest continuous length of steepest grade is 0.87 miles followed by rise 1 in 91 for 0.37 miles.

Contract.—The Bengal-Nagpur Railway will work the above section as a temporary measure for the same percentage of gross earnings as obtained from year to year on the B. N. Railway (Broad gauge) system with an addition of 5 per cent. on the gross earnings to cover the use of rolling stock, this arrangement being terminable, by either party on 12 months' notice (vide Railway Board's letter No. 4467-F., dated the 26th June 1928 to the Agent, B.-N. Railway).

Statistics of Working-

Y	car.		Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings,	Percentage of net earnings on total capital outlay given in column 3.	Earnings per mile per week.	Proportion of ex- penses to earnings.	
	1		2 ,	3	4	5	6	7	8	
			Miles.	Rs.	Rs.	Rs.		Rs.		
1928-29			29.61	88,77,433	62,383	13,400	0.15	40	78.50	
1929-30	•	•	40.03	77,19,620	66,890	7,826	0.10	32	88•32	
1930-31	•	•	53.85	1,19,99,902	78,739	10,702	0.00	28	86-41	
1931-32			53.85	1,19,91,757	1,11,503	10,574	0.09	40	90.52	
1932-33			53.85	* 1,20,53,274	2,14,305	28,820	0.24	76	86.55	
1933-34			53.84	* 1,22,56,133	4,44,287	1,30,046	1.06	158	70.73	
1934-35			53.84	*1,22,85,285	6,19,706	(a) 2,32,868	1.90	221	64.82	
1935-36		٠.	53.84	*1,23,34,117	6,83,783	(b) 1,83,397	1.49	243	73.18	
1936-37	1936-37		*1,23,46,054	7,93,944	(b)(c)2,52,331	2.04	283	68.22		

* included in the capital at charge of the E. I. Hly. (5' 6' gauge).

(a) Includes Rs. 14,839 which was excess recovered by B. N. Railway in 1933-34 now refunded.

(b) Included in the Gross earnings of the E. I. Railway (5' 6' gauge).

(c) Rs. 8,824, being the outstanding balance of net earnings for 1935-36 payable to E. I. Railway was erroneously not included in the Gross earnings.

included in the figure.

(c) Mayurbhanj Railway (2' 6" gauge)--

Managing Agents.—Messrs. Hoare Miller & Co., Calcutta. Date of registration of the Company.—1915.

The section from Rupsa to Baripada, formerly known as the Mayurbhani State Railway, was owned by the Mayurbhanj State. It was acquired by the Mayurbhanj Railway Company and merged in their undertaking from the date the section from Baripada to Talband was opened.

Progress in opening-

		Sectio	ns of	railwa	.y.					Date of opening.	Miles.	Total.
	 		1			 			_	2	3	4
Rupsa to Baripada		,		•		•	•	•	•	20-1-05	38:41	_
Baripada to Talband	•	•			,		•	•		15-7-20	38-23	
						To	LAT	. •	•	••	••	70.64

Details of construction-

Permanent-way.—The line is laid with 30 and 31-lb. flat-footed steel rails on sal sleepers.

Ballast.—The Rupsa-Baripada section is ballasted with screened laterite grauel and broken laterite and the Baripada-Talband section, with stone.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 955 feet radius.

Gradients.—'The ruling gradient is 1 in 100 between Rupsa and Baripada and 1 in 80 between Baripada and Talband.

(c) Mayurbbanj Railway (2' 6' gauge)—contd.

Contracts-

Dated the 2nd December 1918, between the Mayurbhanj State and the Mayurbhanj Raitway Company, us to the acquisition by the latter of a line of railway from Rupsa to Baripada from the former.

Dated the 11th August 1922, between the Secretary of State and the Mayurbhanj Railway Company, as to the construction and working of the Baripada-Talband extension.

Railway Board's letters Nos. 510-P.-16 and 1857-F., dated the 24th April 1920 and 25th May 1923 respectively sanctioning the raising of additional capital to the extent of Rs. 2,75,000.

Main provisions of contracts-

- (i) Land.—Land in Mayurbhanj territory provided by the Mayurbhanj State free of cost to the Company.
- (ii) Government aid.—The line was constructed by Government (from funds supplied by the Company whose property it is) and is managed, maintained, stocked and worked by Covernment through the agency of the Bengal-Nagpur railway as if it were a part of its system.

By way of rebate Government allow to the Company in respect of each year such a sum not exceeding the net earnings of the Bengal-Nagpur railway derived from traffic interchanged between the Bengal-Nagpur railway and the said railway equal to the interest for the year at a rate of 5 per cent. per annum on the share capital of the Company for the time being paid up. They also allow, subject to the conditions mentioned in clause 4, Schedule II of the contract, Rs. 6,000 and other actual expenses for or towards the office expenses and expenses of management and direction of the Company as specified in that clause, as also all such legal expenses as may be properly incurred by the Company and approved by the Secretary of State under the provisions of the contract debitable to revenue.

-) For management, maintenance, working the Secretary of State retains (iii) Term of working .-45 per cent. of gross carnings, the remainder constituting the net (iv) Distribution of profits. earnings is paid to the Company.
 - Note.—The amount of interest on the unexpended capital and share transfer fees also form part of the net earnings of the

Should the net earnings of the Company exceed the amount sufficient to pay interest at 5 per cent. per annum such excess is to be applied towards the payment of the office expenses and expenses of management and direction of the Company stated under (ii), the balance, if any, being divided equally between the Government and the Company.

- (v) Rates and tares. -To be sanctioned by the Secretary of State within the maximum and minimum in force on, and the classification of goods to be in conformity with that of the Bengal-Nagpur railway. No concessional rates at any time are to be allowed in respect of sleepers carried for other railways.
- (vi) Special obligations as to the conveyance of-
 - (a) Mail:, troops, police high Government Officials and Government stores.

(b) Government bullion and coin and the persons in charge hereof.

(vii) Power of the Government to determine contract.—Government may, by giving 12 months' previous notice of purchase, determine the contract on the 31st March 1950 or on the 31st March in the last year of any subsequent period of 10 years by paying to the Company in rupees 25 times the average of the yearly net earnings (as defined in clause 3 of Schedule ii) during the 3 years immediately preceding the date of determination, but the total amount so payable to the company shall not in any case exceed by more than 20 per cent. the total capital expenditure of the company as appearing in the capital account of the company or be less than such capital expenditure.

Government may also by giving 12 months' previous notice of "Special purchase" determine the contract at any time in the following cases: -

- (a) when it is considered desirable to alter the gauge of the railway,
- (b) when it is considered desirable to convert the railway into a line of through communication, and
- (c) when it is considered desirable to extend the said railway and the Company fails to raise additional capital for such extension within six months from date of receipt of the formal requisition from Government.

If the contract shall be determined by notice of "Special purchase" the Government will pay to the Company in rupees 25 times the average of the yearly net earnings during the three years preceding the date of determination or 115 per cent. the of total capital expenditure of the Company, whichever may be greater.

(c) Mayurbhanj Railway (2' 6" gauge)-concld.

Main provisions of contracts-concld.

- (viii) Power of the Company to surrender contract.-Nil.
- (ix) Term of the contract.—15th July 1920 to 31st March 1950 and thereafter as noted under (vii) above.

- ear.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open; and (ii) lines partly or wholly under construction.	Gross carn- ings.	Net carnings.	Percentage of net earnings on total capital outlay given in column (3).	Rebate from the Bengal- Nagpur Railway.	Total income (Columns 5+7).	Percentage of total income on total capital outlay given in column 3.	Earn- ings 1-er mile per week.	Propertion of expones to earnings.
- 1920-21	Miles. 70·64	Rs. 23,47,792	Rs. 63,438	Rs. 21,959	0.94	Rs. 24,398	Rs. 46,357	1.97	Rs. 21	65.32
1921-22	70.64	23,80,309	1,11,123	51,867	2.18	24,833	76,700	3.22	30	45·C0
1922-23	70.64	23,98,137	1,41,510	77,831	3-25	93,587	1,71,418	7.15	38	45 ¢0
1923-24	70.64	23,99,181	1,75,352	96,444	4.02	32,375	1,28,819	5.37	48	45.00
1924-25	70-64	24,59,502	1,84,792	1,02,199	4.16	35,856	1,38,055	5.61	50	44.70
1925-26	70.64	24,69,583	1,95,474	1,08,258	4.38	21,998	1,30,256	5.27	53	44.62
1926-27	70.64	24,69,923	2,01,438	1,09,081	4.42	17,696	1,26,780	5.13	55	45.85
1927-28	70-64	24,70,128	2,13,086	1,21,131	4.90	19,453	1,40,584	5∙ 09	58	43.15
1928-29	70.64	24,70,128	2,11,349	1,18,725	. 4.81	24,099	1,42,824	5.78	57	43.83
1929-30	70.64	24,70,128	1,91,536	1,00,635	4.07	52,258	1,52,893	6-19	52	47.48
1930-31	70.64	24,70,128	1,60,954	89,796	3.64	48,704	1,38,500	5.61	44	44.21
1931-32	70.64	24,70,128	1,21,769	65,932	2.67	66,353	1,32,285	5.36	33	45-85
1932-33	70.64	24,70,128	1,13,965	76,626	3.10	16,463	60,163	2.44	31	32.76
1933-34	70.64	24,70,128	1,07,156	62,507	2.53	95,028	1,57,535	6.38	29	41.67
1934-35	70.64	24,70,128	1,16,047	63,815	2.58	36,735	1,00,550	4.07	32	45.01
1935-36	70.64	24,73,235	1,35,001	74,221	3.00	69,883	1,44,104	5.83	37	45.02
1936-37	70.64	24,74,469	1,33,454	73,401	2.97	58,244	1,31,645	5.32	36	45.00
	ł		l	}	{		•	}	1	1

(d) Parlakimedi Light Railway (2' 6" gauge)-

On the 20th May 1901 the Indian Railways Act, 1890 (IX of 1890), except section 135, was applied to the line. The working of this railway was taken over by the Bengal-Nagpur Railway Company from the 1st January 1902.

Progress in opening-

•		Sec	tions	of rai	lway.					Date of opening.	Miles,	Total.
	Naupada to Parlakimedi				,					1-4-00	24.62	
•	Parlakimedi to Varanasi	. .			•					17-11-29	15•75	
	Varanasi to Gunupur .			•						16-11-31	15.93	
							Tota	ıl			••	56-30

Details of construction-

Permanent-way.—The line is laid with 31-lb. flat-footed steel rails on transverse wooden sleepers.

Ballast.—The line is ballasted throughout with laterite, gravel and stone.

Fencing.—Short lengths of fencing have been provided in a few places where the railway runs in cuttings alongside the road.

Curves.-There are no curves of less than 1,000 feet radius.

Gradients.—The ruling gradient is 1 in 100.

54CR Accts.

(d) Parlakimedi Light Railway (2' 6" gauge)-concld.

Agreement-

Dated the 24th January 1905, between the Raja of Parlakimedi and the Bengal-Nagpur Raitway Company as to management, maintenance and working.

Dated the 7th March 1930 between the Raja of Parlakimedi and the Bengal Nagpur Railway Company as to management, maintenance and working of Parlakimedi Light Railway including its extension to Gunapur.

hiain provisions of agreement-

- (i) Land.—Provided by the Raja of Parlakimedi at the cost of capital.
- (ii) Government aid.—Nil. The railway was constructed by the Raja of Parlakimedi, whose property it is. The line with its rolling-stock is managed, maintained and worked by the Bengal-Nagpur Railway Company as if it were part of the Company's undertaking.
- (iii) Terms of working.—

 The total amount of actual working expenses of the line, including cost of maintenance, is deducted by the Company from the gross receipts, and the balance is paid to the Raja of Parlakimedi.
- (v) Rates and fares.—Controlled by the Company.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.
 (b) Government bullion and coin, and the persons in charge thereof.
- (vii) Power of the Raja to determine agreement.—

 The agreement is terminable on 31st December of any year on three months' previous notice given by either party to the other.
- (ix) Term of agreement [if not determined under (vii) or (viii)].—None specified.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14.)—

У	ear.		Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Not carnings.	Percentage of net earn- ings on total capital outlay given in column 3.	Earnings per mile per week.	Proportion of expenses to earnings,
	1		2	3	4	5	ช	7	8
			Miles.	Rs	Rs.	Rs,		Rs.	
1913-14 1914-15 1916-16 1916-17 1917-18 1918-19 1920-21 1921-22 1922-23 1923-24 1924-25 1926-27 1927-28 1929-30 1930-3			24·62 24·62 24·62 24·62 24·62 24·62 24·62 24·62 24·62 24·62 24·62 24·62 24·62 24·62 24·62 26·63	7,64,914 7,56,324 7,63,417 7,67,085 7,67,321 7,67,321 7,68,187 7,68,187 7,68,187 7,68,187 7,68,187 7,68,187 7,68,187 7,68,187 7,68,187 7,68,187 7,68,187 7,68,187 7,68,187 20,20,602 23,22,135 24,62,629	50,679 50,129 40,735 48,766 54,493 53,391 69,012 75,387 76,500 78,402 73,128 78,742 87,464 84,987 79,738 84,891 93,083 95,431 1,01,693	18,288 17,880 852 3,653 21,184 22,167 26,649 33,248 33,860 10,295 12,398 47,710 45,372 43,812 46,893 44,710 38,567 25,936 19,501	2·42 2·36 0·11 0·48 2·76 2·89 3·47 4·33 4·41 1·34 1·61 6·21 5·91 5·70 5·97 5·82 1·91 1·12	40 39 32 38 43 42 54 59 60 61 57 62 68 66 62 66 44 45 35	63·91 64·33 97·91 92·51 61·12 58·50 61·38 55·89 55·74 88·05 39·41 48·12 48·45 47·33 58·57 72·82
1932-3 1933-3- 1934-3 1935-3 1936-3	i .	•	56:30 56:30 56:30 56:30	25,36,633 25,38,286 25,50,806 25,80,622 25,86,490	1,21,052 1,02,748 96,863 97,098 96,319	52,751 25,059 13,326 22,405 9,119	0.87	41 35 33 33 33	56.42 75.61 86.24 76.93 90.53

(e) Purulia-Ranchi branch (2' 6" gauge)--

Progress in opening-

	S	ectio	ns of 1	ailwa	y.						Date of opening.	Miles.	Total.
			1								2	3	4
Purnlia to Ranchi . Ranchi to Lohardaga Re-alignment of Narrow	Gauge	dive	rsion	at M	uri.	:	:	:	:	:	15-11-07 6-10-13 11-1-27	72.68 42.62 1.24	
					Tota	l oper	n mile	uge		•	••	•••	116.54

(e) Purulia-Ranchi branch (2' 6")-concld.

Details of construction-

Permanent-way.—The line is laid with 40-lb. flat-footed steel rails on transverse wooden sleepers.

Ballast.--The line is ballasted with stone and gravel.

Fencing.—Only the important level crossings have posts and chains padlocked.

Curves.—The sharpest curve is of 955 feet radius.

Gradients.-The ruling gradient is 1 in 80.

Contracts-

The line is an integral part of the Bengal-Nagpur Railway and is worked under the contracts noted under Bengal-Nagpur Railway (5' 6" gauge).

Statistics of working. (Those for the periods prior to 1918-14 will be found in Appendix 1 to the Railway Administration Report for 1913-14.)—

Norg.—(i) The figures in this table are also included in the Statistics of working of the Bengal Nagpur Railway (5' 6" gauge)—vide note on the top of the table of Statistics of working of that Railway.

Note.—(ii) From the year 1936-37 the net carnings have been arrived at after taking into account the Appropriation to Depreciation Reserve Fund' instead of actual expenditure on 'Replacement and Renewals' previously accounted for.

Ye	ear.		Mileago open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross carnings.	Net earnings.	Percentage of net carnings on total capital outlay given in column 3,	Earnings per mile per week	Proportion of expenses to estnings.
	1		2 1	3	, 4	5	6	7	8
			Miles.	Rs.	Rs.	Rs.		Rs.	
1913-14 1914-15 1915-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1923-24 1924-25 1926-27 1927-28 1928-29 1928-29 1928-30			115-29 115-30 115-30 115-30 115-30 115-30 115-30 115-30 115-30 115-30 116-54 116-54 116-54 116-54	7,92,815 70,97,151 72,26,864 73,41,974 73,75,423 73,10,420 73,27,388 74,72,065 76,22,621 77,90,688 80,02,248 80,02,248 80,25,427 85,30,185 88,01,209 89,65,232 89,71,883 90,45,649 90,67,504 90,69,157	5,06,262 5,73,476 5,79,880 5,96,222 5,54,283 6,90,368 7,28,232 6,52,366 7,16,510 9,75,960 9,36,377 9,99,899 10,62,922 9,82,751 8,61,198 9,03,861 0,18,885 7,66,188 5,74,484	2,86,043 3,21,498 3,02,935 3,09,805 2,60,843 3,53,397 3,07,465 1,32,996 2,58,999 3,79,969 3,99,056 5,00,298 5,85,230 4,25,911 3,04,318 3,25,077 3,14,572 94,433 —13,981	4·21 4·53 4·19 4·22 3·54 4·83 4·20 1·78 3·40 4·88 4·99 6·23 6·83 4·84 3·30 3·62 3·48 1·04 —0·16	184 96 97 99 92 115 121 109 120 146 156 167 177 162 141 149 151 126 94	43·50 43·94 47·76 48·04 52·94 48·81 57·78 79·61 63·85 56·62 57·34 49·97 44·94 56·66 64·68 64·03 65·70 87·67 102·43
1932-33 1933-34 1934-35 1935-36 1936-37	•	•	116.54 116.54 116.54 116.54 116.54	90,49,265 90,43,048 90,55,659 90,60,725 90,71,207	5,42,459 5,48,021 5,37,514 4,82,173 4,71,360	-3,993 10,391 -74,901 -1,52,628 -2,71,769	-0.04 0.11 -0.83 -1.66 -3.00	89 90 88 79 78	100.74 98.10 113.93 131.65 157.66

(f) Raipur-Dhamtari branch (2' 6" gauge)-

Progress in opening-

:	Secti	o Pnoi	f rai	lwa	у.					Date of opening.	Miles.	To tal	Grand total
			1							2	3	4	5
Main line— Raipur to Kurud						•				10-9-00	31.50		
Kurud to Dhamtari									•	17-12-00	14.04		
Branch—Abhanpur to Rajin	1						•		•	15-10-00	11.40	- 45·54 - 11·40	
				G	RAN	o To	TAL	,			••		56.94

Details of construction-

Permanent-way.—The line is laid with 31-lb. flat-footed steel rails on sâl sleepers.

Ballast.—Moorum or sand and stone in a few cuttings.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 361 feet radius at Raipur station.

Gradients.—The ruling gradient of the line is 1 in 200.

Contracts—

The line is an integral part of the Bengal-Nagpur railway and is worked under the contracts noted under Bengal-Nagpur railway (5' 6" gauge).

(f) Paipur-Dhamtari branch (2' 6' gauge)-concld.

(f) Paipur-Dhamtari branch (2 6 gauge)—concid.

Statistics of morting (Them for the periods prior to 1913-14 will be found in Appendix 33 to the Raliway Administration Report for 1807 and in Appendix 1 to the Report for 1913-14)—

Normally The forms in this table are also included in the Statistics of working of the Bengal Nagpur Raliway (5' 6' gauge)—ride for the topic of the table of Statistics of Working of that Raliway.

Normally From the year 1906 of the working expense have been arrived at after taking into account the 'Appropriation to Depreciation Reserve Fund' instead of actual expenditure on 'Replacement and Renewals' previously accounted for.

Year.	Mil-age open at end of each year.	Total capital outlay, in- cluding suspense, to end of each year, i.e., outlay on (i) him sopen, and (i) hims partly or wholly under construction.	Grovs	Net carnings.	Percentage of net carnings on total capital outly given in column 3.	Earnings per mile per week	Proportion of expenses to earnings
	2	3	4	5	6	7	8
929-20 933-31 931-32 932-33 935-34 934-35	Miles, and an an an an an an an an an an an an an	14,51,688 14,58,663 14,58,663 14,58,376 14,92,730 14,91,053 14,52,079 15,65,039 16,05,369 16,12,225 16,55,111 16,60,615 17,93,755 18,46,164 20,28,440 18,53,238 19,42,748 20,43,635 20,48,010 20,57,683 20,66,375 20,66,375 20,04,885 21,00,274	184, 196,572 1,91,811 1,66,190 1,62,427 1,41,151 1,82,385 1,94,680 1,83,249 1,89,192 2,44,858 2,74,713 2,78,945 2,83,102 3,29,456 3,44,801 3,32,813 2,45,305 1,59,192 1,94,937 1,77,081 1,60,719 2,07,431 2,06,149	R4, 1,11,930 1,00,506 64,463 74,877 56,177 87,794 82,092 58,209 25,80) 82,101 1,00,789 1,09,809 1,45,250 1,81,632 1,83,041 1,62,466 33,642 —20,069 69,011 —33,959 —24,284 —21,788 6,074	7:54 7:15 4:33 5:02 3:76 6:01 5:72 1:60 5:09 6:01 9:30 7:87 8:95 10:15 8:30 1:65 -0:98 3:164 -1:18	Re. 06 05 50 55 49 62 63 64 82 93 94 90 111 116 112 83 63 60 60 61 70	43·05 44·47 61·20 53·90 61·03 51·90 57·37 65·24 86·36 66·47 63·31 43·14 48·60 44·87 45·46 51·18 86·29 112·61 64·60 110·18 113·41

(9) Satpura Railway (2' 6" gauge)—
This railway is the combination of three lines formerly known as the Gondia-Clauda, Jubbulpore

Section	es of i	rnilw	ay.					Date of opening.	Miles.	Total	Grand total
	1	1						2	_		İ
Gondia Chan la Extension -									3	4	5
Gondia to Nachide											
Distribute to Papell		•	•	٠.				10-11-08	82.82	1	1
Rajoli to Balameth	•	•	•					1-12-10	31.66	1	l
Itajoli to Babupeth Babupeth to Chanda Fort	. •	•	•					1-4-13	35-34	1	İ
	•	4	•	•				20-2-16	1.07	ł .	
Estration							•	20.2	1.07	100.00	
Naghhie to Mathagh eid)										150.89	
** The second of the second of	ILMAD	1				_		10.11.08	CTATO	1 1	
Line at Itwari						,	•	10.11.08	65:50	1	
Entrance to Nagrue	-		•		•	•		15.3.11	0.04	1	
Length taken from G. I. 1 lat halperedic dia Extension-							- 1		1.55	1 1	
lut bulgare fice dia Extension.	l'. Ra	HWA	r at N	szpui	(Itw	aril.	- 1	1-7-25	0.26	1 1	
Inthulana a Tr	-				,	,.	٠,	March 32	0.55	!	
dubbaltone to Howberh	•			_				,- a ·	· · · · · · · · · · · · · · · · · · ·	03.50	
Howharh to Borgi			٠.	-	•	•	• 1	15-9-05	1.33	1	
Barat to Swinger			-		•	•	•	7-4-05	16.10	1 1	
Nalapur to Gon Ha			-		•	•	•	5-7-01	51.47	í ł	
camber on ! Prienting-			•	•	•	•	- 1	18-4-03	72.66	l i	
Manilabanch -							1	ļ		141-61	
Natorus to Garba Mandla							1	- 1			
ALITA ARS SETTING		•	•	•	•	•	- 1	15-2-09	25.66		
Nelapur to Send							- 1	· -		26.66	
Sorni to Coancal		•	•		-	•		12-2-01	47.37	-0.00	
Ci terai to Chhiciwara	•		٠	•				27.7.04	10.22	i	
Charles warm to Khirendah	•		•	٠			. 1	1-9-04	20.06	1	
foliable to Explore	•	•	•	•		•		15-3-06	16-14	1	
Ell integration Paragraphy	•		•	•	•			21-3-07	5 ⋅18	1	
A a charge a way of the	•	•	•	•				23-12-22	0.79	1	
Palachat to Katanai							1		0.79		
im Eims Beases	•				•	_	. 1	1-5-13	29-17	109·66	
		•				-		1-11-13		[
egypte. Cable Corry Extension						•	- 1	3-11-13	6.35		
										35.62	
				٠		_	- 1	1.1.11		1	
THE THE PARTY OF THE PARTY	•				_	•	•		35.13	Ì	
Khipp Provek	•	•	-		-	•	. [10.5.11	7:00	Į	
Surveys Atlanta				-	•	•	- 1	20.10 13	41-75	į.	
e en entre sistemating *	•						1			89-18	
Kardillans team h .					•	•	-	1-1-11	4.70		
ere in the case of				_			į	-		4-70	
			-	•	•	*	• 1	20.10.13	0.27		
							i			0.20	
	100	et e	res n	***			- 1	1	<u> </u>		
		- "*		*****	1.	•	• [•• 1	;	1	625-92

(a) Satpura Railway (2' 6" gauge)—concld.

Details of construction-

Permanent-way.—The permanent-way consists of 40 and 41-lb. flat-footed steel rails laid on sal sleepers. Ballast -The line is ballasted with stone and moorum, except between Seoni and Chhindwara where good black ballast has been used.

Fencing.—Only important station yards are fenced.

Curves.—The sharpest curve is of 409 feet radius.

Gradients -The ruling gradient is 1 in 80, except between Gondia and Chanda where it is 1 in 100 and between Khirsadoh and Barkuhi where it is 1 in 60.

Contracts

This line is an integral part of the Bengal-Nagpur railway and is worked under the contracts noted

under Bengal-Nagpur railway (5' 6" gauge).

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907
and in Appendix 1 to the Report for 1913-14.)—
Note.—(i) The figures in this table are also included in the Statistics of working of the Bengal Nagpur Railway (5' 6" gauge)—vide note on the top of the table of Statistics of working of that Railway.

Note.—(ii) From the year 1936-37 the working tapinass have been arrived at after taking into account the 'Appropriation to Depreciation Reserve Fund' instead of actual expenditure on 'Replacement and Renewals' previously accounted for.

. Year		Milenge open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net carnings.	Percentage of net earnings on total capital outlay given in column 3.	Earnings per mile per week.	Proportion of expenses to earnings.
1		2	. 3	4	5	6	7	8
		Miles.	Rs.	Rs.	Rs.		Rs.	
1913-14		624 • 63	3,73,01,570	23,21,318	6,11,012	1.64	71	73.68
1914-15		621.86	3,87,20,451	21,17,243	3,90,901	1.01	65	81.54
1915-16		622.87	4,02,71,995	20,52,540	1,58,457	0.39	63	92.28
1916-17		626 • 26	4,00,73,512	22,03,616	3,61,479	0.80	68	83 63
1917-18		626 • 26	4,02,00,345	25,02,110	6,20,169	1.54	77	75.21
1018-19	•	626.03	3,95,07,708	27,11,296	4,94,995	1.25	83	81 · 74
1919-20		626.03	3,96,09,226	32,23,940	5,16,218	1.30	99	83.99
1920-21	•	626.03	4,02,23,203	36,19,331	5,14,706	1.28	(11)	85-78
1921-22	•	626.03	4,09,67,341	32,69,828	-1,47,184		100	104.50
1922-23		626.82	4,22,80,383	39,89,760	4,21,506	1.00	122	85.44
1923-24	•	626 82	4.25,12,065	39,80,204	4,10,988	0.97	122	89.67
1024-25	•	626 · 82	4,23,53,587	40,23,240	3,58,499	0.85	123	91.09
1925-26	•	627.08	4,31,63,621	38,91,077	6,21,414	1.44	119	84.03
1926-27	•	625 · 15	4,36,42,725	34,79,743	1,73,361	0.40	107	95.02
1927-28	•	625-15	4,37,34,897	34,78,883	-44 ,815	••	106	101.29
1928-29	•	625-15	4,39,90,433	37,36,949	2,88,920	0.66	115	92.27
192 -30	•	625 • 15	4,41,57,606	36,61,640	67,186	0.15	112	98-17
1930-31	•	625 • 15	4,43,90,378	30,24,442	-4,45,477	-1.01	93	114.73
1931-32	•	625.70	4,44,11,221	22,30,737	-9,68,429	-2.18	68	143.41
1932-33	•	625.92	4,44,27,232	23,99,530	-6,72,238	-1.21	74	128.02
1933-34	•	625.92	4,44,33,658	23,70,110	7,92,550	-1.78	73	133.44
1934-35	•	625.92	4,44,57,232	23,40,121	5,56,223	—1·25	72	123.77
1935-36	•]	625.92	4,44,60,487	22,92,699	7,93,358	-1.78	70	134.60
1936-37		625.92	4,44,99,174	22,21,654	-14,19,111	-3.19	68_	163.88

(h) Tumsar-Tirodi Light railway (2' 0" gauge)

This line was purchased by Government from the Central India Mining Company and made over to the Bengal-Nagpur Railway Company for maintenance and working as a part of their undertaking with effect from the 1st April 1916.

Progress in opening-

Sec.	ction of	f railv	ray.	·		Date of opening.	Miles.	Total	Remarks.		
Tumsar to Tirodi	•	•		•	•	•	•	 1-4-16	46.80		*The line has
Main Line at Kusumba							•	22-5-29	0.62		been disman- tled as fol-
			c	Grand	Total	l		••	• •	*47*42	lows: 28.68 miles in 1929-30, 14.54 miles in 1934-
	4			3							35 and 4·20 miles on 15-2-36.

Details of construction-

Permanent-way.—The permanent-way consists of 24 and 18-lb. flat-footed steel rails on sleepers of wood and corrugated iron.

Ballast.—The line is ballasted partly with stone and partly with moorum.

Fencing.—The line is unfenced.

Curves.—The sharpest curve has radius of 286.5 feet.

Gradients.—The ruling gradient is 1 in 42.

There is no separate contract for this line which is being maintained and worked as an integral part of the Company's undertaking.

Statistice of working-

Included with the Bengal-Nagpur railway (5'6" gauge).

H54CR(Accounts)

Chairman—Major A. D. G. Shelley, R.E.

Secretary-N. Lincoln. Esq.

Offices-White Mansion, 91, Petty France, Westminster, London, S. W.1.

Date of registration of the former company-1855.

The property vested in the former Bombay, Baroda and Central India Guaranteed Railway Company was purchased by the Secretary of State on the 31st December 1905, from which date all the contracts then subsisting between the Secretary of State and that Company were determined, the Company was re-constituted and the railway was worked temporarily under the terms of the provisional contract, dated the 27th December 1905, pending the execution of the new contract, dated the 8th April 1907, as from the 1st January 1906. The purchase price was fixed at the sum of £11,685,581, and the Secretary of State agreed to create and issue to the Company, on the 31st December 1905, India 3 per cent. stock to the amount of £10,089,146 in satisfaction of £9,685,581, part of the purchase price, the Company raising a new stock capital of £2,000,000 being the unpaid balance of the purchase money of £11,685,581.

In addition to its own property the Company works certain other lines owned by separate companies and Indian States, one of which, viz., the Ahmedabad-Dholka railway, has been purchased by Government and merged in the metre gauge section of the Company's line with effect from the 1st July 1922.

Lines comprised in the system.—The Bombay, Baroda and Central India railway system is made up of-

	Open line	construction or sanctioned for construction.	Total
	Miles.	Miles.	Miles.
(a) Bombay, Baroda and Central India railway (5' 6" gauge)	. 1,035.30	••	1,035.30
(b) Nagda-Ujjain railway (5' 6" gauge)	. 34.79	••	34.79
(c) Petlad-Cambay railway (Anand-Tarapur section) (5' 6" gauge) .	21.42	••	21 -42
(d) Petlad-Cambay railway (Tarapur-Cambay section) (6'6" gauge)	. 12.35	••	12:35
(e) Tapti Valley railway (5' 6" gauge) .	. 155.72	••	155 - 72
(/) Bombay, Baroda and Central India railway (3'33' gauge)	. 1,881.28	••	1,881.28
(g) Ahmedabad-Parantij railway (3'32' gauge)	88.73	••	88.73
(h) Dhrangadra railway (3'3) gauge)	. 40.28	••	40.28
(i) Palanpur State milway (3' 3) gauge	17-11	••	17.11
(j) Bombay, Baroda and Central India railway (2' 6" gauge)	. 72 28	••	72.28
(1) Guzerat Champaner-Shivrajpur Pani Light railway (2' 6" gauge)	30.68	••	30.68
(1) Guzorat Godhra-Lunavada railway (2' 6' gauge)	. 25.49	••	25.49
(m) Guzorat Nadiad-Kapadyani railway (2' 6' gauge .	28-18	••	28-18
(n) Piplod Devgad Baria railway (2' 6' gauge)	. 9.52	••	0.52
(o) Rajpipla State railway (2' 6' gauge)	. 58.37	••	58.37
Total	3,511.50	••	3,511.50
Running powers—			
Home line over for eign lines :			
Broad Gauge			
Dadar Junction to Carnac bridge, Great Indian Peninsula Railway (for good	is trains only).		4.24
Mahim to Vadala, Great Indian Peninsula Railway (for passengers and good			1-16
	zers and goods tra	ins)t	82.92
	, ,		
Kilokrito Delhi Main J North Western Railway			7-50
Agra Cantonment to Agra Bayana Spur Line, Great Indian Peninsula Railv		ains only).	. 0.72
Wadala to Bellard Pier, Bombay Port Trust Railway (for passenger and ma	ditrains only).	• •	7.00
Metre Gauge—	• 44		
Mehsana to Viramgaon, Gaekwar Baroda State Railway (for goods traine o		• • •	39.09
Fatchpur Junction Cabin to Belanganj, Great Indian Peninsula Railway (f	or goods trains o	nly) .	3.03
Cawnpore Anwarganj to Cawnpore Central, East Indian Railway. (For coa	ching traffic only)	1.37
		Total	147-03
The same the same to the same		•	
Foreign lines over home line:—			
Broad Gauge—			
East Indian Railway, Agra East Bank to Idgah Agra (for passenger trains o	only)		3.035
East Indian Railway, Agra East Bank to Rupbas (for ballast trains only)	.		32.553
Great Indian Peninsula Railway, Mahim to Bandra (for passenger and balls	t trains only) .		.1.48
North-Western Railway, Delhi Ballast Siding Cabin to Delhi Cantonment traffic)	Station (for coac	shing and goo	
Metro Gauge—			5·686
Jaipur State Railway, Jaipur to Sanganer (for passenger and goods trains)			# D4
Udaipur Chittorgarh Railway, Chitorgarh to Berach Signal Station (for pas		• • • •	7.34
Par	senfer and 2000s	trains) .	. 1.44
		Total	51.534
			

^{*}These powers are temporarily exercised since 1st April 1933, and are subject to revision at the end of 1938-39.

[†]On and from the 1st November, 1930, the Railway, Baroda and Central India Railway ceased to run their goods trains beyond

B. B. & C. I. RAILWAY SYSTEM. REFERENCES. B. B. & C. I. Railway. Indian State lines. Private Companies' lines. SCALE IN MILES. 300 MILES. KOT KAPURA BHATINDA FARUKHABAD FARUKHNAGAR, OBRAHMAVART KASGANJ HISSAR HATHRAS MANDHANA CAWNPORE MUTTRA CANT ACHNERA AGRA FORT REENGUS-SAMBHAR LAKE KUCHAMAN RD. SAWAI MADHOPUR PHULERA AJMER KOTAH MARWAR JN. CHITORGARH NAGDA ORO UNAIN FATEHABAD-CHANDRAWATIGANJ PALANPUR-NHANDWA DEESA ON O DEVGAD BARIA O PANI MINES CHAMPANER RD. ANALNER KUDA SIDING+O HALVAD OO BAN DHRANGADRA WADHWAN DHANDHUKA BILIMORA DBOMBAY(CENTRAL)



(a) Bombay, Baroda and Central India railway (5' 6" gauge)-

Progress in opening-

Sections of railway.	Date of opening.	Miles	Total.	Grand tota
1	2	3	4	5
ain line—				
Church Gate to Marine lines	18-1-70	0.78		1
Marine lines to Charni Road	19-6-69	0.75		
Charm Road to Grant Road	3-9-68 28-11-64	0.76		ļ
Bulsár to Navsári	2-9-61	24.25		
Navsári to Sachin	20-5-61	9.25		1
Sachin to Surat	18-3-61	9.00		1
Surat to Utran	19-11-60 10-2-60	2·25 28·75		
Anklesvar to Nerbudda	5-12-60			
Nerbudda to Broach	22-6-60	5.57		}
Broach to Baroda	9-1-61	43.75		Ì
Baroda to Vasad . Vasad to Mehmadabad and Kaira Road	22-4-62 3-9-62	11·23 33·25		ì
Mehmadabad and Kaira Road to Ahmedabad	21-1-63	17.89		
Ahmedabad to Sábarmati	1-1-70	3.75		(
Sábarmati to Sánand	24-5-71	13.75		1
Sánand to Viramgám	30-11-71	22.98	349.48	1
anches and section.—			049.40	1
Godhra branch—				1
Anand to Dâkor	8-4-74 6-1-75	16.75 1.75		1
Rukhval to Azgadi	6-12-76	9.00		
Angadi to Sevalia	29-1-77	4.71		1
Sevalia to Godhra	26-2-82	16.74		1
Pátri branch— Khárághoda to Vicamgám	10 = 72	00.10	48.95	1
Godhra-Baroda chord—	12-5-73	22.12	22.12	1
Baroda to Godhra	23-12-03	42.37	22 12	1
Godhra-Rutlam-Nagda section—			42.37	1
Godhra to Limkhera Limkhera to Dohad	16-1-93	25.86		1
Dohad to Rutlam	7-3-94 22-10-94	19·55 70·46		j
Rutlam to Nagda	11-5-96	26.04		1
Nagda-Muttra section—			141.91	1
Nágdá to Morak	15-7-07	101.26		1
Morak to Kotah City	26-2 08 1-5-09	35·12 3·48		
Kotah Junction to Siwai Mádhopur	1-5-09	67.38		1
Siwai Madhopur to Gangapur City	1-6-09	39.00		
Gangapur City to Hindaun City	1-10 09	26.34		1
Hindaun City to Muttra Junction	15-6-09	66.02	339-40	ļ
Bayana to Agra	1-12-13	50.30	220.40	1
Agra East Bank to Idgah, Agra	1-1-76	4.00		1
Make Mark to Make and	12.0.14		54·30	-
Mahim Chord Line in Mahim yard . Line in Kotah yard .	11-8-14	0·10 1·00		}
At Delhi (worked by Great Indian Peninsula Railway)	12-11 03	0.11		1
Delhi Cantonment extension (worked by North Western	22-6-15	*5.24		[
Railway).			6.45	
sad Katana Railway—	ĺ	1		1
Vasad to Katana	1-9-30	26.61	26.61	ļ
			-5 01	
riavi Vadtal Railway— Bornavi to Vadtal	10 4 00	0.53		ł
DOTALVI to valuat	18-4-29	3.71	3.71	<u>L</u> .
Total open mileage .	••		••	1,035-3
ADRUGLE LINE—				
Grant Road to Bellasis Road.	17-10-26	0.09		1
Bellasis Road to Mahaluxmi.	31-10-26	1.19		
Mahaluxmi to Parel	26-9-26 } 3-10-26 }	0.93		1
North of Borivli Station	13-3-27	0·51 0·14		1
Parel to Mahim	1-3-22	2.82		
Mahim to Bandra	1-5-17	1.00		
Bandra to Santa Cruz	2 3-26	1.82		
Andheri to Goregaon	29 1-26 5-3-26	3.00		1
Goregaon to Borivii	19-2-26	4.68		1
- ' '		- 55		1
			19.18	j
Triplicate lines at Grant Road	27-1-27	0.26		ł
	~,-1-2,	· · · · · · · · · · · · · · · · · · ·	0.26	1
				i

(a) Bombay, Baroda and Central India railway—contd.

Main Provisions of contract—contd.

The surplus of the two half-years of any year is next applied in payment of interest for the year at 4 per cent. on the deferred capital of the Secretary of State and the balance, if any, remaining is divided between the Secretary of State and the Company in proportion to the average amounts standing to the credit of the Secretary of State and the Company, respectively, in the Government Capital Account and the Company's Capital Account, including in the Secretary of State's Capital both his preferred and deferred capital. The interest payable by the Secretary of State under the guarantee of 3 per cent. is to be deducted from the interest at 4 per cent. per annum payable to the Company on the average amount to the credit of the Company's Capital Account.

- (iv) Rates and fares.—The Government will from time to time authorize maxima and minima r ates, and prescribe the several classes and descriptions of passengers and goods to which such rates shall be respectively applicable, as well as the extent to which, within the authorized maxima and minima, the Company may vary the said rates. The Railway Board may at any time require the Company to quote such rates over the undertaking for both passengers and goods to and from the western ports between Karachi and Bombay, inclusive, including a rate from stations of origin and delivery where the route is either entirely or only partly over the undertaking, so as to secure equal treatment of such ports.
- (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, high Government officials and Government stores.—To be conveyed on the same general conditions, and at rates to be approved by he Government not being less than those in force on State railways of the same gauge
 - (b) Government bullion and coin, and the persons in charge thereof.—To be carried at special rate to be approved by the Government.
- (vi) Power of the Government to determine contract.—Contract may be determined by Government on the 31st December 1941, or on the 31st December of any succeeding fifth year, by giving to the Company in England, 12 calendar months' previous notice.
- (vii) Power of the Company to surrender contract,-Nil.
- (viii) Term of contract [if not determined under (vii) and (viii)] .- Not specified.

Norn 1.—The Nadga-Muttra Railway which was constructed partly from Government funds and partly from funds received from the Jaipur Durbar, is being worked and managed by the B. B. and C. I. Railway Company as an integral part of the B. B. and C. I. Railway system. The terms between the Government of India and the Jaipur Durbar for the Durbar's contribution towards the cost of the Nagda-Muttra Railway and for maintenance, working and the distribution of the net earnings of the Railway are as under:—

- (i) The Jaipur Durbar provided Rs. 85-lakhs, the cost of the Jaipur section of the Nagda-Muttra Railway. The cost of the remaining length as well as future capital required for the entire line to be provided by the Government of India.
- (ii) The whole capital outlay of the Nagda-Muttra Railway to be that on works (excluding rolling stock) between Nagda and Muttra excluding junction arrangements and the cost of the Bayana-Agra Chord Railway.
- (iii) The investment made by the Durbar to be regarded as permanent. The Durbar have no right to part with its interests in the line except to the Government of India.
- (iv) The Government of India are under no obligation to purchase the Durbar's interests in the line. If the Durbar wishes to sell its interests and the Government of India agree to buy, the price shall be 25 times the average net annual profits received by the Durbar during the three preceding years.
- (v) The working expenses to be the amount calculated on the same percentage of working expenses as obtains on the B. B. and C.I. Railway, Broad Guage System or 50 per cent. of the gross carnings whichever is less plus 5 per cent. of the gross carnings for the supply of rolling stock. The gross carnings to be the actual of the N. M. Section except for interchanged traffic which will be apportioned on the mileage basis and included in the actuals. The net earnings to be divided between the Government of India and the Jaipur Durbar in the proportions of the capital provided by them.

Note 2.—Under the agreement dated the 28th April 1870, H. H. the Maharaja Tukojirao Holkar advanced a loan of one crore of rupees (since reduced to seventy lacs) for the construction of the line from Khandwa to Indore. The main conditions are:—

- (1) The line to be called the Holkar State Railway.
- (2) The whole of the arrangements as to the construction and equipment as well as management after the line is opened, to be exclusively in the hands of the Government of India.
- (3) The loan to be for 101 years.
- (4) Government of India to pay half yearly at Indore to H. H. the Maharaja of Holkar, his heirs or successors, guaranteed interests @ 4½% per annum, free of income tax. In addition to this the Government of India pay 7/20 of the net profits (in excess of 4½% on the capital) from the earnings of the line for which separate capital and Revenue accounts will be maintained.

(a) Bombay, Baroda and Central India railway (5' 6" gauge)—concld.

'Main provisions of contract-concld.

Statistics of working. (Those for the periods prior to 1906 will be found in Appendix 38 of the Railway Administration Report for 1907.)

Note 1.—The amount of sterling liabilities involved in the purchase of railways, included in the figures shown in column 3 against 1933-34 and 1934-35, has been converted at the rates of exchange ruling at the time when the liabilities came into being, as against the statutory rate of exchange, i.e., 1s.-6d previously adopted. From the year 1935-36 onwards the same amount has been reconverted at the latter rate.

Note 2.—From the year 1936-37 the net earnings/working expenses have been arrived at after taking into account the 'Appriation to Depreciation Reserve Fund' instead of actual expenditure on 'Replacement and Renewals' previously accounted for.

		Includes	the Godira-I	RUTLAM-NAGD.	A AND NAC	da-Muttra s	ECTIONS FR	ом 1912.			
Year.	Mileage open at end of each year.	Total capital outlay including suspense to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Per- centage of net earn- ings on total capital out'ay or capi- tal at charge, given in column 3.	nterest.	Company's share of surplus profits (based on terms of contract) attributable to each year.	Percentage of Company's share of net earnings (surplus profits plus guaranteed interest on share capital) on Company's capital.		Earn- ings per mile per week.	Propor tion of expen- ses to earn- ings,
1	2	3'	4	5	6	7	8	9	10	11	12
1906 1907 1908 1909 1910 1911 1912 1st qr. of 1913-14 1914-15 1915-16 1916-17 1917-18 1918-19 1918-19 1919-20 1920-21 1921-22 1922-23 1923-24 1924-25 1925-26	Milea. 504.35 504.35 504.35 504.35 504.35 504.35 504.35 504.35 945.85 996.23 996.30 996.05 997.12 997.12 997.09 1,008.39 1,008.24 1,008.24 1,008.24 1,008.26 1,006.16	Rs. 12,63,16,478 12,96,92,431 13,48,94,409 14,18,69,493 14,32,24,042 14,92,98,743 21,95,74,123 22,35,94,288 23,56,10,283 24,41,98,233 24,91,72,110 25,18,41,949 25,54,66,622,869 26,55,06,868 132,01,06,283 133,53,66,730 135,61,55,344 143,98,38,468 145,07,69,678 140,39,68,366 147,77,46,838	Rs. 1,99,81,754 2,10,78,442 2,04,49,999 2,21,36,727 2,40,62,075 2,47,34,178 88,37,064 3,60,63,969 3,41,76,399 3,73,18,037 3,96,80,614 4,56,03,423 5,25,48,372 5,31,15,062 5,67,01,424 5,72,2,758 6,87,736,548 6,86,45,550 6,77,36,548 6,66,65,569	1,05,39,688 1,18,50,851 97,03,713 1,17,55,514 1,24,94,573 1,23,48,704 1,61,93,680 46,83,922 1,83,83,393 1,65,02,921 1,96,00,894 2,33,71,683 2,68,02,489 2,97,32,879 2,48,01,298 1,83,23,641 1,21,85,073 1,70,48,879 2,65,22,463 2,76,34,844 2,46,70,843 2,64,21,94,34,07,78	8·34 9·16 7·24 8·29 8·72 8·27 7·38 2·09 7·80 6·76 7·85 9·28 10·14 11·59 9·34 5·72 3·64 4·78 6·11 6·20 5·32 4·28	Rs. 72,58,353 71,98,558 72,93,726 75,19,552 77,49,590 78,64,428 99,56,957 25,74,807 1,10,96,208 1,13,83,504 1,14,61,232 1,13,34,814 1,16,78,971 1,04,72,354 1,31,97,641 1,40,70,711 1,47,73,507 1,67,91,923 1,58,07,771 1,63,72,093	Rs. 3,95,833 4,62,599 1,50,000 1,52,517 4,30,787 4,42,388 6,58,709 5,41,271 5,36,456 9,10,326 11,05,194 12,77,777 16,67,100 13,27,190 8,35,120 4,24,663 6,19,816 6,19,816 11,70,026 14,85,347 11,01,705 8,44,967	1-47 5-19 1-47 5-19 4-57 5-66 6-26 6-78 4-63 4-63 7-21 5-93 5-15	Rs. +28,85,502 +42,29,694 +23,19,987 +40,64,445 +43,14,190 +40,41,888 +55,75,014 +18,86,775 +67,45,014 +45,82,961 +71,26,538 +1,08,15,257 +1,32,86,898 +1,17,95,137 +70,16,167 -14,30,336 +23,58,352 +1,13,57,574 +77,61,367 +77,61,367 +32,14,917	Rs. 809 852 780 844 917 943 607 721 660 721 765 880 1,013 1,024 1,092 1,112 1,280 1,309	47.27 43.48 52.25 46.85 48.07 50.37 50.62 47.00 49.03 51.71 47.48 41.10 42.23 43.42 53.31 67.74 60.61 61.36 68.76 64.62
1927-28 1928-29 1929-30 1930-31 1931-32 1932-33 1933-34 1934-35 1935-36 1936-37	1,006·11 1,006·11 1,009·82 1,035·40 1,035·29 1,035·30 1,035·30 1,035·30 1,035·30	149,79 73,410 150,44,15,871 151,47,55,228 150,00,24,363 150,23,80,923 150,63,72,043 152,81,81,174 153,02 33,056 150,70,03,038 150,78,23,630	6,42,73,532 6,71,08,979 6,41,56,610 5,86,81,734 5,81,72,377 5,80,71,416 6,14,32,387 6,25,84,545 6,38,86,220 6,78,87,062	2,33,33,995 2,78,27,430 2,33,71,742 1,83,88,286 2,34,28,948 2,44,04,338 2,85,81,405 2,46,74,388 2,84,85,596	4.69 5.52 4.54 3.68 4.66 4.82 5.41 4.65 5.61	1,72,26,643 1,82,55,259 1,81,69,433 1,93,67,967 1,96,66,419 1,95,86,931 1,95,09,733 1,92,13,176 1,90,53,088 1,87,09,155	8,72,755 10,82,323 8,65,469 5,48,018 6,79,916 7,65,327 9,74,793 9,03,145 10,44,700	5·23 5·89 5·20 4·21 4·62 4·89 5·54 5·32 5·76	+52,34,596 +84,89,848 +43,36,840 -15,27,699 +30,82,613 +40,52,080 +80,96,879 +45,58,067 +83,87,808	1,229 1,283 1,222 1,090 1,080 1,178 1,141 1,162 1,187	63-70 58-53 63-57 68-66 59-72 57-97 53-47 60-57 55-41 58-26

[†] From 1923-24 the figures in this column represent the total capital at charge, including liabilities involved in the purchase of the line, converted

† From 1923-24 the figures in this column represent the total capital at energe, including mannings involved in the purchase of vaccination, observed at different rates from time to time.

† Including premia paid by Government in the purchase of the line.

§ This figure relates to the entire undertaking of the company. It is made up of Rs. 8,20,350 as surplus profits and the excess of Rs. 4,80,400, of interest at 4 per cent. per annum on the Company's preferred capital over the guaranteed interest at 3 per cent. paid to the Company by the Secretary of State. This figure is inclusive of interest at 4 per cent. and a moiety of surplus profits amounting to Rs./1,06,156 due to Government on the advance of Rs. 20,10,000 from the 5'6" gauge Provident Fund taken over by them. The surplus profits for the year were divided between the Government and the Company in the proportion of Rs. 75,39,51,339 to Rs. 3,20,10,000. Similar notes giving details of the figures for the previous years will be found in the History of each year.

(b) Nagda-Ujjain Railway (5' 6" gauge)—

Progress in opening-

	Section of railway.	Date of opening.	Miles.	Total.		
	1			2	3	4
Nagda to Ujjain		•	٠	15-7-96	34.79	34.79

Details of construction-

Permanent-way.—The permanent-way consists of 75-lb. flat-footed steel rails on cast iron oval pot sleepers.

Ballast.—The line is ballasted with broken stone.

Fencing.—The line is unfenced.

Curves .- The sharpest curve is of 1,910 feet radius.

Gradients.—The ruling gradient is 1 in 200.

(b) Nagda-Ujjain railway (5' 6" gauge)—concld.

Agreement and contracts-

- Agreement, without date, having effect from the 15th July 1896, between His Highness the Maharaja Scindia of Gwalior and the Bombay, Baroda and Central India Railway Company, as to the management, maintenance and working.
- Contract, dated the 1st February 1901, between the Secretary of State and the Bombay, Baroda and Central India Railway Company, as to the revising, and extending up to the 31st December 1905, of the arrangements for working the Rajputana Malwa railway and other lines.
- Contract, dated the 8th April 1907 (called the principal contract), between the Secretary of State and the Bombay, Baroda and Central India Railway Company, as to the maintenance, management and working, as from the 1st January 1906, of the Bombay, Baroda and Central India railway, the Rajputana-Malwa railway and other subsidiary lines.

Main provisions of agreement and contracts-

- (i) Land.—Provided free of cost by the Gwalior Durbar.
- (ii) Government aid .- The line is the property of the Gwalior Durbar (which provides all funds chargeable to the capital account), and is managed, maintained, stocked and worked by the Bombay, Baroda and Central India Railway Company as part of the Company's railway system.
-) The Nagda-Ujjain railway is debited with a share of the working (iii) Terms of working. expenses of the Company's railway system in proportion to the total
- earnings of the Nagda-Ujjain railway in each half-year, and the balance (iv) Distribution of profits.in favour of, or against, the Gwalior Durbar is paid over to it, or by it, as the case may be, the payment for the first-half year being subject to adjustment at the close of the year.
- (v) Rates and fares.—To conform generally to those in force on the Godhra-Rutlam-Nagda railway unless otherwise specially agreed between the Durbar and the Company.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, high Government officials and Government stores.—Mails and postal officers on duty to be carried at the rates and on the conditions in force from time to time on State railways. (The agreement does not contain any provision for the carriage at special rates of troops, high Government officials and Government stores.)
 - (b) Government bullion and coin, and the persons in charge thereof.—Not specified.
-) The agreement may be terminated at any time (vii) Power of the Durbar to determine agreement .on one year's notice from either party, expiring
-) on the 31st March in any year. (viii) Power of the Company to determine agreement.
 - (ix) Terms of agreement [if not determined under (vii) and (viii)].-Not specified

Statistics of working (Those for the periods prior to 1913-14 will be found in Appendix 33 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14).--

Year.		Mileago open at end of each yoar.	Fotal carital outlay, in- cluding suspense to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross carnings.	Not carnings.	Percentage of net earnings on total capital outlay given in column 3.	Earnings per milo per week.	Proportion of expenses to earnings.
1	_	۲	3	4	5	6	7	8
	1	Miles.	Rs.	Rq.	Rs.		Ra	
1013-14	. [34.32	22,42,194	2,26,870	1,65,627	7-39	183	49.33
1914-15	.	31.32	22,50,028	2,58,462	1,22,968	5.47	145	52.42
1915-16	.]	34 · 32	22,53,063	3,48,441	1,86,781	8.29	195	46.40
1916-17		32.51	22,55,404	2,86,516	1,62,977	7.23	169	43 12
1917-18	. \	32.51	22,55,461	2,61,688	1,46,039	6.47	155	44.19
1918-19	. 1	32.51	22,55,464	3,99,100	2,18,397	9.68	236	45.28
1919-20	-]	32.51	22,55,672	4,62,899	2,06,822	9.17	274	55.32
1920-21	• 1	32.51	22,55,672	3,70,870	1,22,976	5.45	223	67.37
1921-22		32.51	22,55,672	4,44,734	1,07,003	4.74	263	75.91
1922 23		32.51	22,55,672	4,64,611	1,41,671	6.28	275	69.51
1923-21	-	32 51	22,55,672	4,14,582	1,68,416	7.47	245	59.38
1924-25	•	32.51	22,55,672	4,80,549	2,01,711	9.08	284	57.40
1925-26	•	34.61	22,55,672	5,40,176	2,09,210	0.27	300	61.27
1926-27	•	34.01	22,55,672	4,89,054	1,81,927	8.06	273	62 80
1927-28	•	34.61	22,58,522	4,92,189	1,87,372	8.30	274	61.93
1928-29	٠	34.61	22,58,649	5,34,222	2,26,304	10.02	297	57.84
1929-30	•	34.61	22,60,378	5,92,540	2,20,008	10.18	329	61.18
1930-31	•	34.79	22,67,437	5,92,504	2,05,549	9.08	327	65.31
1931-32	•	34.79	22,71,024	5,16,056	2,05,895	0.06	285	60.10
1932-33	•]	34.79	22,71,021	5,45,715	2,32,590	10.24	302	57.38
I933-34	•]	34.79	22,72,664	0,83,439	3,07,989	13.55	378	54.94
1934-35	•	34.79	22,72,715	6,75,156	2,84,375	12.51	373	57.88
1935-36	٠ ا	34.79	22,80,829	7,11,652	3,17,472	13.92	393	55.39
1936-37	•	34.79	22,83,817	7,53,747	3,57,648	15.66	417	52.55

(c) Petlad-Cambay railway (Anand-Tarapur section) (5' 6" gauge)-

· Progress in opening-

	8	Section	Date of opening.	Miles.	Total.					
	 		1			·		2	3	4
Anand to Petlád .						•		5-5-90	13 · 17	
Petlád to Tarapur					٠			20-6-01	8 • 25	
						TOTAL				21.42

Details of construction-

Permanent-way.—The permanent-way consists of second hand 82-lb. steel rails on C. I. pot sleepers.

Ballast.—The line is ballasted with gravel.

Fencing.—Thirteen miles, between Anand and Petlád, are fenced. The rest of the line is unfenced except in station yards.

Curves.—The sharpest curve is of 1,220 feet radius.

Gradients.—The ruling gradient is 1 in 200.

Agreements and contract-

Agreement, without date, having effect from the 5th May 1890, between the Government of His Highness the Maharaja Gaekwar of Baroda and the Bombay, Baroda and Central India Railway Company, as to the management, maintenance and working.

Contract, dated the 8th April 1907 (called the principal contract), between the Secretary of State and the Bombay, Baroda and Central India Railway Company as to the maintenance, management and working, as from 1st January 1906, of the Bombay, Baroda and Central India railway, the Rajputana-Malwa railway and other subsidiary lines.

Agreement, dated the 3rd March 1909, between the Government of Bis Highness the Maharaja Gaekwar of Baroda and the Bombay, Baroda and Central India Railway Company, modifying the agreement of 5th May 1890.

Agreement, dated the 16th May 1910, between the Government of His Highness the Maharaja Gaekwar of Baroda and the Bombay, Baroda and Central India Railway Company, modifying further the agreement of 5th May 1890.

Main provisions of agreements and contract-

- (i) Land.—Provided free of cost by the Baroda Durbar.
- (ii) Government aid.—The line is the property of the Baroda Durbar (which provides all funds chargeable to the capital account), and is managed, maintained, stocked and worked by the Bombay Baroda and Central India Railway Company as part of the Company's railway system.
- (iii) Terms of working.—

 Excepting the cost of making good damages due to extraordinary casualty which is borne by the Durbar and is chargeable against capital,
- (iv) Distribution of profits.— I the Petlad railway is debited for maintenance and working expenses, including the cost of supervision and hire of rolling-stock, with the same percentage of gross earnings as may be incurred in the half-year on the 5'6" and 3'3\s^{\infty}\ gauge lines of the Bombay, Baroda and Central India railway system, and with any single item of capital expenditure not exceeding Rs. 1,000 classed as a 'Minor work,' subject to a maximum charge on such account of an amount bearing the same percentage of gross receipts as obtains for similar expenditure on the Bombay, Baroda and Central India railway. The balance in favour of, or against, the Baroda Durbar is paid over to it, or by it, as the case may be, the payment for the first-half year being subject to adjustment at the close of the year.
- (v) Rates and fares.—To be fixed from time to time by the Company with the approval of the Durbar but in the absence of any special agreement between them, they are, as far as may be, to conform to those generally in force on the Bombay, Baroda and Central India railway (5' 6" gauge).
- (vi) Special obligations as to the conveyance of-
- (a) Mails, troops, high Government officials and Government stores.—Mails and postal officers on duty to be carried at the rates and on the conditions in force from time to time on State railways in British India. (There is no provision for the carriage at special rates of troops, high Government officials and Government stores.)
 - (b) Government bullion and coin, and the persons in charge thereof.—Not specified.
- (vii) Power of the Durbar to determine agreement.— } Either party may at any time determine the agreement on giving 12 months' notice to the
- (viii) Power of the Company to determine agreement.—) other.
- (ix) Term of agreement [if not determined under (vii) and (viii)].—Not specified.

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(c) Petlad-Cambay railway (Anand-Tarapur section) (5' 6" gauge)—concld.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Raliway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14.)—

Year.	Miloage open at end of each year.	Total capital outlay, including suspense, to end of each year. i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction. (a)	Gross earnings	Net carnings.	Percentage of not earnings on total capital outlay given in column 3.	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8
	Miles.	Rs.	Rs.	Rs.		Rs.	
1913-14	01.50	11,50,073	2,43,277	1,21,880	10.60	218	49.90
1914-15	01.50	12,02,487	2,61,224	1,24,590	10.35	234	52.34
1915-16	21.50	12,62,474	2,78,833	1,45,392	11.52	249	47.89
19.6-17	01.40	12,76,018	2,81,393	1,61,221	12.83	253	42.71
1917-18	31.40	12,84,150	2,74,851	1,53,583	11.06	247	44.12
1918-19	01.40	12,83,248	3,37,623	1,87,330	14.60	303	44.52
1919-20	21.42	13,06,595	3,53,358	1,58,011	12.09	317	55.28
1920-21	21.42	13,06,643	3,91,439	1,27,731	9.78	351	67.37
1921-22	21.42	13,27,975	3,94,011	94,800	7.14	354	75.94
1922-23	21.42	13,76,342	4,60,009	1,40,259	10.19	413	69.51
1923-24	21.42	13,85,339	4,97,767	2,02,209	14.60	447	59.38
1924-25	21.42	13,91,132	5,21,125	2,21,999	15.96	468	57.40
1925 26	21.42	13,97,973	5,27,103	2,04,147	14.60	473	61.27
1926-27	21.42	14,01,385	5,07,523	1,88,798	13.47	456	62.80
1927-28	21.42	14,04,683	5,17,073	1,96,845	14.01	464	61.93
1928-29	21.42	14,06,415	5,31,412	2,25,113	16.01	477	57.64
1929-30 .	21.42	14,17,635	5,22,520	2,02,819	14.31	469	61.18
1930.31	21.42	14,44,130	4,85,869	1,68,556	11.67	432	65.31
1931.32 .	21.42	14,44,521	4,21,599	1,68,208	11.64	379	60.10
1932.33	21.42	14,46,044	4,43,314	1.88,945	13.07	398	57.38
1933-34 .	21.42	14,49,143	4,44,320	2,00,231	13.81	399	54.94
1934-35	21.42	14,55,727	4,21,430	1,77,506	12.19	378	57.88
1935-36 .	21.42	14,60,578	4,21,531	1,88,048	12.87	378	55.39
1936-37 .	21.42	14,60,734	4,41,696	2,09,582	14.35	397	52.55
		}		1)]

(d) Petlad-Cambay railway (Tarapur-Cambay section) (6' 6" gauge)-

Progress in opening-

	Section of railway.			Date of opening.	, Miles.	Total.
Tarapur to Cambay		 •	•	20-6-01	12:35	12.35

Details of construction-

Permanent-way.—The permanent-way consists of second hand 82lb. steel rails on C. I. pot sleepers.

Ballast.-The line is ballasted with gravel.

Fencing .-- Only station yards are fenced.

Curves. - The sharpest curve is of 1,910 feet radius.

Gradients.—The ruling gradient is 1 in 600, with a short length of 1 in 200 between Sayama and Cambay. Agreements and contract—

Agreement, dated the 17th May 1902, between the Cambay Durbar and the Bombay, Baroda and Central India Railway Company, as to management, maintenance and working.

Contract, dated the 8th April 1907 (called the principal contract), between the Secretary of State and the Bombay, Baroda and Central India Railway Company, as to the maintenance, management and working, as from the 1st January 1906, of the Bombay, Baroda and Central India railway, the Rajputana-Malwa railway and other subsidiary lines.

Agreement, dated the 17th October 1908, between the Cambay Durbar and the Bombay, Baroda and Central India Railway Company, modifying the agreement of 17th May 1902.

Agreement, dated the 10th May 1910, between the Cambay Durbar and the Bombay, Baroda and Central India Railway Company, medifying further the agreement of 17th May 1902.

Main provisions of agreements and contract -

- (i) Land .- Provided free of cost by the Cambay Durbar.
- (ii) Government aid.—The line is the property of the Cambay Durbar (which provides all funds chargeable to the capital account), and is managed, maintained, stocked and worked by the Bombay, Baroda and Central India Railway Company as part of the Company's railway system

(d) Petlad-Cambay railway (Tarapur-Cambay section) (5' 6" gauge)—concld.

Main provisions of agreements and contract-concld.

(iii) Terms of working .-

(iv) Distribution of profits .--

(v) Rates and fares .-

(vi) Special obligations as to the conveyance of-

(a) Mails, troops, high Government officials and Government stores.

(b) Government bullion and coin, and the persons in charge thereof.

(vii) Power of the Durbar to determine agreement.—

(viii) Power of the Company to determine agreement .-

(ix) Term of agreement [if not determined under (vii) and (viii)].-

As noted under Petlad Camhay railway (Anand-Tarapur section) (5' 6" gauge).

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14.)—

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross carnings.	Net earnings.	Porcentage of net earnings on total capital outlay given in column 3.	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8
	Miles.	Rs.	Rs.	Rs.		Rs.	40.00
1913-14	12:30	8,66,999	53,711	27,045	3.12	84	49.65
1914-15	12·30 12·30	8,67,002	60,852	29,040	3.35	95	52.28
1915-16 .	12.36	8,74,561 8,75,949	68,054 70,620	35,624 40,522	4·07 4·63	105 110	47.65 42.62
1916-17 . 1917-18 .	12.36	8,80,659	64.122	35,795	4.06	100	44.18
	12.36	8,80,538	72,605	40,172	4.56	113	44.67
1918-19 . 1919-20 .	12.36	8,80,538	78,007	34,881	3.96	121	55.28
1919-20	12.36	8,80,538	87,531	28,562	3.24	136	67.37
1920-21	12.36	8,80,605	94,606	22,763	2.58	147	75.94
1922-23	12.36	9,13,910	1,10,625	33,730	3.69	172	69.51
1923-24	12.36	9,16,151	1.16.904	47,490	5.18	182	59.38
1924-25	12.36	9,16,151	1.19,578	50,941	5.56	186	57.40
1925-26 .	12.36	9,16,151	1.18.667	45,960	5.02	185	61.27
1926-27	12.36	9.16.137	1,14,165	42,469	4.63	178	62.80
1927-28	12.36	9,16,137	1.08.321	41,237	4.50	169	61.93
1928-29	12.36	9,17,712	1,21,548	51,489	5.61	189	57.64
1929-30	12.36	9,20,081	1,19,473	46,374	5.04	186	61.18
1930-31	12.36	9,32,964	1,05,792	36,701	3.93	165	65.31
1931-32	12.36	9,33,763	1,06,005	42,294	4.53	165	60.10
1932-33	12.35	9,33,219	1,23,428	52,606	5.64	192	57.38
1933-34 .	12.35	9,34,639	1,21,735	54,859	5.86] 190	54.94
1934-35 .	12.35	9,34,486	1,07,184	45,146	4.83	167	57.88
1935-36 .	12.35	9,34,486	1,06,049	47,309	5.06	165	55.39
1936-37 .	12.35	9,38,237	1,09,687	52,046	5.55	171	52.55

(e) Tapti Valley railway (5' 6" gauge)-

Agents-Messrs. Killick, Nixon & Co., Bombay.

Date of registration of the Company—17th June 1896.

Progress in opening-

-	 Secti	ions of	f railw	vay.		,		Date of opening.	Miles.	Total.
Udhna to Vyara Vyara to Chinchpada Chinchpada to Nandurbar Nandurbar to Dondaiche Dondaiche to Nardana Nardana to Amalner			:		•	· · · · · · · · · · · · · · · · · · · ·	•	1-12-98 5-6-99 20-7-99 10-11-99 25-11-99 15-3-00	35·59 36·55 25·20 21·48 19·98 16·92	

Details of construction-

Permanent-way.—The permanent-way consists of 70-lb, flat-footed rails on wooden and cast iron pot sleepers with small length of 75 lb, flat-footed rails on wooden sleepers and 82 lb rails on cast iron pot sleepers.

Ballast.—The line is ballasted throughout with stone.

Fencing.—Only station yards and important level crossings are fenced.

Curves.—The sharpest curve is of 1,000 feet radius.

Gradients.-The ruling gradient is 1 in 200.

(e) Tapti Valley Railway (5' 6" gauge)-contd.

Contracts-

Dated the 28th August 1896 (called the principal contract), between the ? Secretary of State and the Tapti Valley Railway Company;

Dated the 30th October 1896 (set forth in the schedule to the principal contract of 1896), between the Secretary of State and the Bombay, Baroda and Central India Railway Company;

as to the construction. management, maintenance and working of the Tapti Valley railway.

- Dated the 1st February 1901, between the Secretary of State and the Bombay, Baroda and Central India Railway Company, revising, and extending up to the 31st December 1905, the arrangements for the working of the Rajputana-Malwa and other lines.
- Dated the 16th January 1902, between the Secretary of State and the Tapti Valley Railway Company, modifying the terms on which the Company's line is worked by the Bombay, Baroda and Central India Railway Company.
- Dated the 8th April 1907, between the Secretary of State and the Bombay, Baroda and Central India Railway Company, as to the maintenance, management and working, as from the 1st January 1906 of the Bombay, Baroda and Central India railway the Rajputana-Malwa railway and other subsidiary lines.
- Dated the 26th August 1907, between the Secretary of State and the Tapti Valley Railway Company, for the continuance of the working of the Tapti Valley railway on the terms in force on the 31st December 1905.
- Dated the 10th July 1908, between the Secretary of State and the Bombay, Baroda and Central India Railway Company;

Dated the 12th November 1908, between the Secretary of State and the Tapti Valley Railway Company;

giving effect, as from the 1st July 1908, to the arrangement agreed upon for the improvement of the rebate interchanged traffic payable to the Tapti Valley Railway Company by the Bombay, Baroda and Central India Railway Company

- Dated the 30th June 1916, between the Secretary of State, the Tapti Valley Railway Company and the Bombay, Baroda and Central India Railway Company (supplemental to the contracts of 28th August and 30th October 1896, 16th January 1902, 26th August 1907 and 12th November 1908) as to the adoption of the Government financial year for the preparation of accounts from the 1st April 1913.
- Dated the 23rd March 1922, between the Secretary of State and the Bombay, Baroda and Central India Railway Company (supplemental to the contracts of 30th October 1896, 1st February 1901 and 10th July 1908), modifying, with effect from the 1st April 1922, the arrangement under which the line is worked by the Bombay, Baroda and Central India Railway Company.
- Dated the 10th August 1923 (supplemental to the contracts of 28th August 1896, 16th January 1902, 26th August 1907, 12th November 1908 and 30th June 1916) between the Secretary of State and the Tapti Valley Railway Company. modifying the contracts between the Secretary of State and the Tapti Valley Railway Company.

Main provisions of contracts-

- (i) Land. In British territory provided by the Government free of cost to the Company. The Secretary of State to use his influence to obtain the free grant of land in Indian States.
- Government aid.—

 The Government constructed the line (from funds supplied by the Company), and manage, work, stock and maintain Distribution of profits.—

 by the Company), and manage, work, stock and maintain it, through the agency of the Bombay, Baroda and Central India Railway Company.

 During the continuance of the contracts between the Secretary of State and the Bombay, Baroda and Central India Railway Company (ii) Government aid .-(iii) Terms of working .. -(iv) Distribution of profits .relating to the working of State branches, the charge to the Tapti Valley Railway
 - Company in each year for the provision of rolling-stock and the working and maintenance of the system of railways worked by the Bombay, Baroda and Central India Railway Company which is attributable to the Tapti Valley railway in proportion to its gross earnings, * This was 44.00 per cent. prior to 1st April subject to a limit of 55* per cent.), thereof 1922.

in any year. The residue of the gross earnings after deduction of the charge for working, etc., is payable to the Tapti Valley Railway Company.

By agreement with the Bombay, Baroda and Central India Railway Company, the Government allow to the Tapti Valley Railway Company in respect of each year, by way of rebate a sum not exceeding 45 per cent. of the combined shares attributable to the Bombay, Baroda and Central India railway 5' 6" and 3' 33" gauge systems of the gross earnings (carriage of stores being excluded from traffic interchanged between those railways, or either of them, and the Tapti Valley railway, as will. together with the net earnings of the Tapti Valley Railway Company, make up

Tapti Valley railway (5' 6" gauge)—concld.

Main provisions of contracts-concld.

an amount equal to interest for the year at the rate of 8 per cent. per annum on the actual capital expenditure. The Government also allow to the Company the sum of Rs. 6,000 per annum towards its office expenses and expenses of management.

- (v) Rates and fares.—To be such as may from time to time be arranged between the Government and the working agency, but it is provided that they shall be within the maximum and minimum rates and fares for the time being in force on the Bombay, Baroda and Central India railway (5' 6" gauge). The classification of goods is to be in conformity with that in force on the Bombay, Baroda and Central India railway (5' 6" gauge).
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, high Government officials, and Government stores.
 - (b) Government bullion and coin and the persons in charge thereof.

As in the case of Bombay, Baroda and Central India railway (5' 6" gauge).

- (vii) Power of the Government to determine contract.—The Government may, by giving 12 months' notice, determine the contract and acquire the railway—
 - (a) on the 31st March 1932, or at the end of any subsequent period of 10 years, in which case the Government undertake to pay to the Company in rupees a sum equal to 25 times the average yearly net earnings of the Company during the last preceding five years, provided that such sum shall not exceed by more than 20 per cent. the total capital expenditure of the Company, nor be less than such capital expenditure; or
 - (b) on the 31st March 1951, in which case the Government will pay to the Company in rupees an amount equal to the total capital expenditure.
- (viii) Power of the Company to surrender contract.-Nil.
- (ix) Term of contract [if not determined under (vi) or (vii)].-Not specified.

Statistics of working-

		(lotal i								-	
Year.	Mileage open at end of each year.	Total capital out- lay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partl; or wholly under construc-	Gross earnings.	Net carnings.	Percent- age of net earnings on total capital outlay given in column 3.	Rebate from the Bom- bay, Baroda and Central India railway.	Total income.	Percentage of total income on total capital outlay given in column 3.	Larn- ings per mile per week.	Proportion of expenses to earnings.	Rumarre.
1	2	tion.	4	5	6	7	8	9	10	11	12
1898	155-48 155-48 155-48 155-72 155-72 155-72 155-72 155-72 155-72 155-72 155-72 155-72 155-72 155-72 155-72 155-72	1,36,24,863 1,36,45,203 1,36,66,530 1,36,67,260 1,36,71,891 1,36,03,231 1,37,10,180	20,44,611 28,65,735 29,41,700 20,00,009 26,57,232 21,95,072 25,37,323 20,15,816 26,08,564 25,99,811	13,61,241 13,25,076 12,89,581 13,23,765 13,05,004 11,95,756 9,87,782 11,41,790 13,52,208 11,73,854 11,69,915	2.65 3.67 3.72 2.82 4.40 4.42 4.27 4.73 5.06 5.51 6.12 1.71 6.78 5.01 7.30 6.76 6.66 8.47 9.10 9.48 9.65 10.07 9.48 9.44 9.48 9.49 9.48 9.49 9.48 9.49 9.49		Rs. 3,75,469 5,08,438 5,23,400 3,97,335 5,89,849 6,35,469 6,79,383 5,59,390 6,19,676 6,64,110 7,23,422 8,04,410 2,25,017 8,91,988 7,39,649 9,61,238 8,81,945 11,21,694 12,05,343 11,63,672 12,32,548 12,163,672 12,32,548 13,25,755 13,25,755 13,05,004 11,05,755 11,05,758 11,17,906 13,62,298 11,173,854 11,69,916 11,69,916 11,69,916 11,66,080	9.65 10.07 9.76 9.48 9.72 9.50 8.74 8.09 8.09 8.35 8.55 8.55	100 178 199 197 163 213 194 217 266 258 277 338 358 358 358 358 358 358 358 358 358	44·00 44·00 55·00 55·00 55·00 55·00 55·00 55·00 55·00 55·00 55·00 55·00 55·00	1

4. BOMBAY, BARODA AND CENTRAL INDIA RAILWAY SYSTEM—contd.

(f) Bombay, Baroda and Central India railway (3' 35" gauge)—

Progress in opening—

Sections of railway.		Date of	Miles.	Total.	Grand total.	
1		opening.	3	4	5	6
RAJPUTANA SECTION—						
Main line— Delhi to Rewári . Rewári to Alwar . Alwar to Bandikui . Bandikui to Dausa . Dausa to Jaipur . Jaipur to Phulera . Phulora to Ajmer . Ajmer to Beáwar . Beáwar to Haripúr .	•	14-2-73 15-9-74 7-12-74 20-4-74 12-10-74 1-3-75 1-8-75 15-5-78 12-8-79	52·25 46·10 37·51 17·84 38·14 34·20 40·92 32·41 20·85	17:17	<u>.</u> 1₹3•71	
Haripur to Sojat Road Sojat Road to Pálanpur Pálanpur to Ahmedabad New zero of Ahmedabad-Dholka branch to facing p	point	20-10-80 1-1-81 15-11-79 12-2-08	20.54 148.44 85.17 0.66			
Branches and extensions— *Ahmedabad-Dholka branch— Sabarmati to Bavia Bavla to Dholka	:	23-2-03 1-4-03 1 4-23 1-3-25	24·74 8·79 11·25 27·37	1		* This was the Ah medabad Dhoika Branc Railway Company's lin which was purchased by Government with effect from the
Viramgam-Wadhwan section— Viramgam to Wadhwan†	•	14-12-02 14-2-73	40.32	40.32		† This section wa opened on th 5′ 6″ gaug from 25th Ma
Agra branch— Bandikui to Bharatpur Bharatpur to Agra Fort Agra Fort to Jumna, East Bank (Agra) Sámbhar Lake Salt branch		20-4-74 11-8-73 1-1-76	60·28 35·18 1·50	96.96		1872 and converted to an opened on the 3' 3' gaug from 14t
Extension of Sambhar branch to Kuchaman Road		20-12-79 1-9-91	17:00 3:66	‡ 25·16		‡ Excludes 8-27 miles of Sam bhar Salt Siding handed ove
Main line— Khendwa to Sanáwad Sanáwad to Mortakka Mortakka to Choral Choral to Mhow Mhow to Indore Indore to Fatehabad Chandrawat ganj Junction Fatehabad Chandrawatiganj Junction to Rutlam Rutlam to Jaora Jaora to Mandsaur Mandsaur to Neemuch Neemuch to Nimbahera Nimbahera to Chitorgarh Chitorgarh to Nasirabad Nasirabad to Ajmer		1-2-74 1-4-74 20-1-75 1-1-78 3-8-76 3-8-76 11-7-76 25-2-80 8-4-80 2-7-80 10-3-81 19-3-81 1-12-81 14-2-76	34·20 3·50 20·50 13·00 25·23 48·75 20·50 31·75 30·25 16·40 17·65 10·65 14·15	s		to Salt Department from 7th February 1927. § The line Khandwa to Indore (86.8 miles) is the Holkar State railway.
Ujjain branch— Fatebabad Chandrawatiganj to Ujjain		3-8-76	12.79	392·22 12·79		
Main line— Cawnpore Main line Cawnpore to Kanauj Kanauj to Farukhabad Farukhabad to Kásganj Kásganj to Hathras Road Hathras Road to Muttra Cantonment Jumna bridge Muttra Cantonment to old connection Muttra Junction Old connection to Achnera Branches— Brahmavart branch Brindaban branch		26-4-09 15-12-80 1-2-81 14-4-84 1-7-84 19-10-75 1-7-84 11-11-07 7-11-81	2·34 49·20 36·71 66·78 34·04 29·11 1·00 2·32 20·95	242·45 12·03		
Carried over		•• ;			1,485•75	

(f) Bombay, Baroda and Central India railway (3' 3\frac{2}{8}" gauge)—contd.

Progress in opening-concld.

Section	s of ra	ilway.			Date of opening.	Miles.	Total.	Grand total.	Remarks.		
	1				2	3	4	5	6		
Rewari-Bhatinda-Fazilea s	ECTION		Rough	it fore	vard	•		••		1,485 • 75	
Main line— Rewari to Hissar			: :	:	:	•	20-3-83 1-1-84 1-10-84 1-1-85	88 · 20 50 · 75 73 · 24 50 · 26	262 · 45		
Rewari-Phulera Chord— Rewari to Narnaul Narnaul to Phulera	Tota	: al ope	: : 11 mile	euge	:	•	11-12-04 18-5-05	32·55 100·53	133 · 08	1,881 • 28	
Double line, Rajputana sec	TION—					•	25-12-02	2.82	- 2.82	2.82	

Details of construction-

Permanent-way.—On the Rajputana section, the main line, from Delhi to Ahmedabad via Bandikui is laid with 60 lb. British Standard rails, partly on wooden and partly on steel trough sleepers except between Delhi Serai Rohilla and Rewari, and Rewari and Rajgarh where 75-lb. and 50-lb. rails respectively are laid on wooden sleepers; station yards between Rewari and Rajgarh are laid with 60-lb. rails on steel trough sleepers.

The Agra branch is laid with 50-lb, rails on wooden sleepers except between Agra Idgah and Achnera where 66½ fb. rails are laid on wooden sleepers.

The Malwa section, from Ajmer to Khandwa, is laid with 50-lb. flat-footed steel rails and wooden, sleepers.

The Rewari-Fazilka section is laid with 41½-lb. flat-footed steel rails and wooden sleepers, except on the length from mile 0 to mile 186 which has been relaid with second-hand 50-lb. rails taken out from the main line.

The Sambhar branch has also been relaid with second-hand 50-lb. rails and wooden sleepers.

The other small branches except Ahmedabad-Dholka and Dholka-Dhanduka, Viramgam-Wadhwan and Ujjain branch Railways from miles 0 to 73, 40½ to 79¾ and 0 to 14 respectively are all laid with 41½-lb. flat-footed steel rails and wooden sleepers excepting small lengths of old 40-lbs. iron rails in some of the unimportant branches which are being gradually relaid with 41½-lb. steel section.

Ahmedabad-Dholka and Dholka-Dhanduka, Viramgam-Wadhwan and Ujjain branch Railways from miles 0 to 73, 40\frac{1}{4} to 79\frac{3}{4} and 0 to 14, respectively, have been relaid with second-hand 50-lbs. rails.

Ballast.—The line is ballasted throughout with stone, kunkur, sand and hard quartz.

Fencing.—The following lines are fenced: (1) Rajputana section, main line, Delhi to Ahmedabad via the Rewári-Phulera chord, 521·48 miles; Rewári-Bandikui-Phulera loop, 173·76 miles, and branches, 94·61 miles; (2) Malwa section, main line, Khandwa to Ajmer, 99·13 miles, and branch 2·17 miles; (3) Cawnpore-Achnera section, main line, 148·23 miles and Brindaban branch, 2·69 miles; (4) Rewári-Fázilka section, 114·62 miles, including stations; and (5) Viramgam-Wadhwan 28·08 miles. On the Ahmedabad-Dholla and Dholka-Dhanduka branches the station yards only are fenced.

Curves.—The sharpest curve is of 560 feet radius.

Gradients.—On the main line of the Rajputana section, Delhi to Ahmedabad, via Rewári-Phulera chord; on the Rewári-Bandikui-Phulera loop; Ujjain branch; and on the Brahmavart branch, the ruling gradient is 1 in 150. On the Agra branch it is 1 in 150, except for 1,058 feet where it is 1 in 142, and 841 feet, where it is 1 in 145 at mile 1. On the Sámbhar branch, it is 1 in 200, except for 3,310 feet where it is 1 in 150 at the beginning of the line. On the Faukhnagar branch it is 1 in 100. On the Malwa section it is 1 in 150, except between Khandwa and Kalakhund where it is 1 in 100 and between Kalakhund and Patal Pani (Mhow Ghat) where it is 1 in 40. On the Cawndore-Achnera section it is 1 in 150. On the Brindaban branch it is 1 in 200; and on the Rewári-Fázilka section it is 1 in 200 except for 634 feet at mile 160 where it is 1 in 169. On Viramgam-Wadhwan it is 1 in 330.

(f) Bombay, Baroda and Central India railway (3' 32" gauge)—concld.

As noted under Bombay, Baroda and Central India railway (5' 6" gauge). gauge).

Main provisions of contracts -Statistics of working. (Those for the periods prior to 1906 will be found in Appendix 38 to the Railway Administration Report for 1907.)

-From the year 1936-37 the net earnings/working expenses have been arrived at after taking into account the 'Appropriation to Depreciation Reservo Fund' instead of actual expenditure on 'Replacement and Renewals' previously accounted

Includes the Godhra-Rutlam-Nagda	Section up to 1911	and Viramgam-Wadhwan Section from 1912.

Year, or	lileage pen at nd of ch year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings 4	Net earnings. 5	Percentage of net earnings on total capital outlay given in column 3. 6	Interest.	Company's share of surplus profits (based on terms of contract) attributable to each year.	Gain or loss to the State pertaining to each year.	Earn- ings per mile per week.	Pro- por- tion of ex- penses to earn- ings.
1906	111cs. 915-50 915-50 916-50 918-54 917-72 918-54 917-73 815-64 815-64 815-64 815-64 821-61 821-72 8851-72 8851-72 8851-72 8851-72 8851-72 8851-72 8851-72 8851-72 8851-72	Rs. 16,65,57,367 16,68,593,587 17,64,83,727 18.04,84,544 18.18,63,774 18,23,81,723 16,55,41,245 16,66,23,366 16,78,56,869 17,10,31,351 17,14,42,855 17,13,01,668 17,02,51,167 17,54,97,989 17,73,20,118 18,39,51,355 18,60,91,307 19,12,64,778 19,76,20,582 10,93,39,498 20,37,44,019 20,71,52,307 21,33,307,126 21,81,73,12 22,21,86,753 22,54,28,651 22,64,26,60 22,65,60,041 22,72,58,061 22,64,16,530 22,68,76,167 22,66,10,248 22,64,46,321	R ₉ . 2,80,04,905 2,87,22,171 2,47,43,850 2,61,08,900 3,15,07,819 81,34,986 2,98,50,716 2,88,44,574 3,10,96,389 4,26,81,13 3,50,63,620 4,30,12,732 4,46,78,162 5,04,48,51 5,16,12,734 4,46,78,162 5,14,1,153 5,15,12,734 4,78,9,163 4,21,83,927 4,46,78,162 5,14,1,153 5,15,12,734 4,46,78,162 5,14,1,153 5,15,12,734 4,46,78,162 5,16,12,734 4,46,78,9,163 4,21,63,171 4,37,80,849 4,43,35,559 4,82,61,445 5,10,09,314	Rs. 1,47,43,530 1,43,93,902 04,10,603 1,08,98,036 1,44,648,04 1,50,63,603 1,61,10,247 45,20,210 4,47,44,027 1,32,97,402 1,168,25,011 1,90,65,200 1,01,48,143 2,34,50,138 1,76,138,53,85 1,76,138,53,85 1,76,90,30 2,13,77,921 2,11,48,888 2,21,59,622 2,10,67,777 2,02,34,676 2,22,42,730 2,15,45,457 1,86,36,499 1,73,56,012 1,92,18,347 1,95,73,142 2,18,51,251 1,26,45,611 2,32,22,051	8·35 8·54 5·33 6·04 7·96 8·27 9·73 2·72 8·78 7·77 9·81 11·12 11·25 13·38 6·18 9·93 7·28 6·18 9·40 10·93 10·17 9·30 10·20 9·70 8·26 8·46 8·46 8·46 8·56 8·56 8·56 8·57 9·57 10·25	Rs. 65,09,040 53,01,963 60,07,222 61,19,498 61,72,944 63,40,819 59,67,519 14,50,507 57,08,505 55,44,480 60,74,853 61,51,932 62,91,684 63,26,468 66,44,001 67,85,177 71,36,019 77,00,001 77,00,001 77,00,001 84,39,683 84,30,837 85,53,496 89,50,823 89,41,541 88,40,547 86,16,900 85,11,433	Included with Bombay, Baroda and Central India railway (5' 6' gavge).	Re. +81,43,500 +90,83,939 +33,43,381 +47,79,138 +8,11,860 +87,42,784 +1,01,42,728 +30,72,709 +75,75,505 +1,11,17,36,71,200 +1,72,90,300 +1,72,90,300 +1,72,90,300 +1,13,22,185 +70,65,917 +48,51,145 +1,11,83,853 +1,42,41,902 +1,08,46,690 +1,45,01,324 +1,33,63,656 +1,31,08,620 +17,83,03,056 +1,131,08,620 +17,83,03,056 +1,131,08,620 +17,23,635 +1,131,68,656 +1,131,68,656 +1,131,68,656 +1,131,68,656 +1,131,68,656 +1,131,68,656 +1,131,68,656 +1,131,68,656 +1,131,68,656	Re. 2811 288 2499 252 286 3099 335 316 303 338 362 370 4544 449 455 563 560 560 448 448 4463 490 621	47-35 49-88 61-97 50-75 49-20 51-07 49-20 53-58 47-44-33 45-33 45-45 53-58 53-68 63-

Includes premia paid by Govt. in the purchase of the Ahmedabad-Dholka Railway from 1st July 1922.

(q) Ahmedabad-Parantij railway (3' 38" gauge)—

Agents-Messrs. Killick, Nixon & Co., Bombay.

Date of registration of the Company-6th January 1896.

Progress in opening-

(Sections of railway.											Date of opening.	Miles.	Total.
				1			•				2		3	4
Ahmedabad to Talod												1-5-97	32.85	
Taled to Parántij . Parántij to Himmatnagar		:				٠	:	•	•	•	•	2-7-97 23-10-97	7·83 14·05	
Himmatnagar to Khed Br	hma			•		-	•	•	•	:		1-7-11	34.00	
							T	DTAL					••	88.7

Details of Construction-

Permanent-way.—The permanent-way consists of 411-lb. flat-footed steel rails on wooden sleepers.

Ballast.—The line is ballasted with kunkur, sand and stone.

Fencing.—Only station yards are fenced.

Curves.—The sharpest curve is of 1,146 feet radius.

Gradients.—The ruling gradient is 1 in 150.

Contracts-

Dated the 13th March 1896 (called the principal contract), between the Secretary of State and the Ahmedabad-Parántij Railway Company, as to the construction of the Ahmedabad-Parántij railway.

Dated the 4th June 1896, between the Secretary of State and the Bombay, Baroda and Central India Railway Company, as to the management, maintenance and working by the Company of the Ahmedabad Parántíj railway.

Dated the 1st February 1901, between the Secretary of State and the Bombay, Baroda and Central India Railway Company, revising, and extending up to the 31st December 1905, the arrangements for the working of the Rajputana-Malwa and other lines. . .

(q) Ahmedabad-Parantij railway (3' 33" gauge)-contd.

Contracts-concld.

Dated the 29th January 1902, between the Secretary of State and the Ahmedabad-Parántij Railway Company, modifying the terms on which the Company's line is worked by the Bombay, Baroda and Central India Railway Company.

Dated the 8th April 1907, between the Secretary of State and the Bombay, Baroda and Central India Railway Company, as to the management, maintenance and working, as from the 1st January 1906, of the Bombay, Baroda and Central India railway, the Rajputana-Malwa railway and other subsidiary lines.

Dated the 17th September 1907, between the Secretary of State and the Ahmedabad-Parántij Railway Company, for the continuance of the working of the Ahmedabad-Parántíj railway on the terms in force on the 31st December 1905.

Dated the 2nd October 1908, be'ween the Secretary of State and the as to the construction, manage-Bombau, Baroda and Central India Railway Company; and ment, maintenance and work-

Dated the 24th November 1910, between the Secretary of State and the Ahmedabad-Parántíj Railway Company;

as to the construction, management, maintenance and working of the Brahmakhed extension as part of the Ahmedabad-Parántíj railway, subject to the modifications therein set forth of the terms applicable to the main line.

Dated the 30th June 1916, between the Secretary of State, the Ahmedabad-Parántíj Railway Company and the Bombay, Baroda and Central India Railway Company, supplemental to the contracts of 13th March and 4th June 1896, 29th January 1902, 17th September 1907, 2nd October 1908, and 24th November 1910 as to the adoption of the Government financial year for the preparation of accounts from the 1st April 1913.

Dated the 28th July 1933 between the Secretary of State and the Ahmedabad | As to the continuance of the Parántij Railway Company. | Working of the Ahmedabad-Dated the 29th January 1934 between the Secretary of State and the B. B. | Parántij Railway with effect and C. I. Railway Company. | From the 1st January 1931.

Main provisions of contract-

- (i) Land.—Provided by the Government free of cost to the Company. The Secretary of State to use his influence to obtain the free grant of land in Indian States.
- (ii) Government aid.—
 (iii) Terms of working.—
 (iv) Distribution of profits.—
 (b) Bombay, Baroda and Central India Railway Company. During the continuance of the contracts between the Secretary of State and the Bombay, Baroda and Central India Railway Company relating to the working of State branches, the charge to the Ahmedabad-

Parántíj Railway Company in each half-year for the provision of rolling-stock and the working and maintenance of the line is 60 per cent. of the gross earnings of the Ahemedabad-Parántij Railway for the same year less the maximum rebate of 10 per cent. of the combined shares attributable to the Bombay, Baroda and Central India Railway 5′ 6″ and 3′ 3¾ gauge system of the gross earnings from traffic interchanged between those railways, which the Government is entitled to retain. The residue of the gross earnings, after deduction of the charge for working, etc., is payable to -the Ahmedabad-Parántíj Railway Company, half-yearly, the payment for the first-half year being subject to adjustment at the end of the year.

By agreement with the Bombay, Baroda and Central India Railway Company, the Government allow to the Ahmedabad-Parántíj Railway Company in respect of each year, by way of rebate, a sum not exceeding 10 per cent. of the combined shares attributable to the Bombay, Baroda and Central India railway 5' 6" and 3' $3\frac{1}{3}$ " gauge systems of the gross earnings from traffic inter-changed between those railways, or either of them, and the Ahmedabad-Parántíj railway, as will together with the net earnings of the Ahmedabad-Parántíj Railway Company, make up an amount equal to interest for the year at the rate of 4 per cent. per annum until the close of the half-year next after that in which the Brahmakhed extension is opened throughout for public traffic, and thereafter at 5 per cent. per annum, on the actual capital expenditure. The Government also allow to the Company the sum of Rs. 5,000 per annum until the close of the half-year next after that in which the Brahmakhed extension is opened throughout for public traffic, and thereafter Rs. 6,000 per annum towards its office expenses and expenses of management

(v) Rates and fares.—To be such as may from time to time be arranged between the Government and the working agency, but it is provided that they shall be within the maximum and minimum rates and fares for the time being in force on the Bombay, Baroda and Central India railway (3' 3\frac{3}{8}" gauge). The classification of goods is to be in conformity with that in force on the Bombay, Baroda and Central India railway (3' 3\frac{3}{8}" gauge).

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(g) Ahmedabad-Parantij railway (3' 3\square\) gauge)—concld.

Main provisions of contracts-concld.

(vi) Special obligation; as to 'he conveyance of-

(a) Mails, troops, high Government officials, and Govern-

ment stores.—

(b) Government bullion and coin, and the persons in charge As in the case of Bombay, Ba and Central India railway. thereof .--

As in the case of Bombay, Baroda

- (vii) Power of the Government to determine contract.—The contract shall stand determined on the 31st December 1946 on which date the Government will acquire the Railway on payment to the Company a sum of Rs. 45,41,087-7-6 together with a sum of money equal to the authorised capital expenditure of the Company as appearing in the capital account of the Company incurred from the 1st January 1931 to the 31st December 1946 without any premium.
- (viii) Power of the Company to surrender contract.-Nil.
- (ix) Term of contract [if not determined under (vi) or (vii)].—Not specified.

Statistics of working-

Year.	Mileage open at end of each	Total capital out- lay, including sus- pense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or	Gross earnings.	Net carnings.	Percentage of net carn- ings on total capital out- lay given in	Rebate from the Bombay, Baroda and Central	Total income.	Precent- age of total income on total capital outlay	Earnings per mile per week.	Proportion of expenses to
, 1	year. 2	wholly under construction. 3	4	5	column 3.	India railway. 7	8	given ir. column 3. 9	10	earnings 11
1897 1898 1999	Miles. 54·59 54·59 54·70 54·70	Rs. 19,42,211 19,42,071 19,49,616 19,55,305	Rs. 69,069 1,49,790 2,10,634 2,65,105	Rs. 36,665 85,836 1,21,687 1,55,952	1·89 4·42 6·24 7·98	Rs.	Rs. 36,665 85,836 1,21,687 1,55,952	1·80 4·42 6·24 7·08	Rs. 46 53 74 93	46.92 42.70 42.23 41.17
1901	54·70 54·70 54·70 54·70 54·70	19,49,355 19,70,012 19,88,869 19,89,045 19,91,753	1,77,438 1,79,794 1,50,112 1,86,227 1,98,713	99,365 1,00,685 84,063 1,04,287 1,15,469		::	99,365 1,00,685 84,063 1,04,287 1,15,649	5·10 5·11 4·23 5·24 5·80	62 63 53 65 70	44.00 44.00 44.00 44.00 41.89
1906	54·70 54·70 54·70 54·70 54·70	19,98,023 20,08,966 20,26,012 20,32,797 28,71,739	2,20,934 2,64,637 2,95,664 3,04,884 3,21,710	1,23,727 1,48,197 1,65,572 1,70,735 1,80,158	6·10 7·38 8·17 8·40 6·27		1,23,727 1,48,197 1,65,572 1,70,735 1,80,158	6·19 7·38 8·17 8·40 6·27		44.00 44.00 44.00 44.00 44.00
1011	88·70 88·70	36,40,022 36,64,696	3,52,475 3,47,122	1,97,386 1,94,388	5·42 5·30	::	1,97,386 1,94,388	5·42 5·30	94 75	44·00 44·00
1st qr. of 1913 1913-14 1914-15 1915-16	88·70 88·70 88·70 88·70	36,83,679 37,08,874 37,18,368 37,18,830	1,03,425 4,02,382 4,25,995 3,84,630	57,918 2,25,334 2,38,557 2,15,393	1.57 6.08 6.42 5.79	::	57,918 2,25,334 2,38,557 2,15,393	1.57 6.08 6.42 5.79	90 87 92 83	44.00 44.00 44.00 44.00
1916-17 . 1917-18 . 1918-19 . 1919-20 . 1920-21 .	88·70 88·70 88·70 88·70 88·70	37,23,327 37,23,351 37,24,439	3,37,371 3,59,845 4,54,307 5,15,104 6,04,060	1,93,542 2,01,513 2,54,411 2,88,458 3,38,273	5·20 5·41 6·83 7·75 9·08	 :: ::	1,93,542 2,01,513 2,54,411 2,88,458 3,38,273	5·20 5·41 6·83 7·75 9·08	73 78 98 112 131	42.63 44.00 41.00 44.00 42.00
1921-22 1922-23 1923-24 1924-26 1925-26 1925-27 1927-28 1928-29 1929-30 1930-31	88·70 88·70 88·70 88·70 88·70 88·70 88·73 88·73	37,26,847 37,40,839 37,40,839 37,53,724 37,61,173 37,67,211 37,74,505 37,82,572 38,04,301	6,83,447 8,07,230 8,07,299 7,91,073 8,66,658 7,60,835 8,80,614 9,60,921 8,86,002 8,33,719	4,52,088 4,43,001 4,85,329 4,26,067 4,93,144 5,38,116 4,96,161 4,31,253	12.09 11.84 12.93 11.33 13.09 14.26 13.12		3,82,730 4,52,049 4,52,088 4,43,001 4,85,329 4,26,067 4,93,144 5,38,116 4,96,161 4,31,253	10·27 12·13 12·09 11·84 12·93 11·33 13·09 14·26 13·12 11·33	105 191 208 192 181	44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 48.28
1931-32 1932-33 1933-34 1934-35 1935-36 1936-37	88.73 88.73 88.73 88.73 88.73	38,05,844 38,05,859 38,05,859 38,05,859	8,54,834 9,61,245 9,05,903 8,80,290 9,74,316 9,93,250	3,84,498 3,62,361 3,52,116 3,89,726	10·10 9·52 9·25 10·24		3,41,934 3,84,498 3,62,361 3,52,116 3,89,726 3,97,299	10.24	205 196 191 211	60.00 60.00

(h) Dhrangadra railway (3' 3\\ gauge)-

This line was constructed for the Indian State of Dhrangadra (after which it is named). It was worked up to the 31st March 1911 by an Administrative Coalition of the States of Bhavnagar, Gondal, Junagad and Porbandar, which was formed for the purpose of working as one undertaking the railways which. prior to that date, were comprised in the Bhavnagar-Gondal-Junagad-Porbandar railway. The Coalition H64CR Accounts

(h) Dhrangadra railway (3' 33" gauge)—contd.

ceased to exist on the 1st April 1911, from which date the line was worked by the Bhavnagar State railway until the 1st October 1919, when it was made over to the Bombay, Baroda and Central India Railway Company for working.

Progress in opening-

Sections of railway.				Date of opening.	Miles.	Total.
Wadhwan Junction to Dhrangadra	•	:	•	1-6-98 1-1-02 27-6-26	20·43 19·72 0·13	
Total open mileage	•	•	•			40.28

Details of construction-

Permanent-way.—The permanent-way consists of 41 J-lb. flat-footed steel rails laid on deodar and jodka sleepers.

Ballast.—The ballast used is of broken sand stone.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 716 feet radius

Gradients .- The ruling gradient is 1 in 100.

Agreement-

Dated the 31st January 1920, between the Government of His Highness the Maharaja of Dhrangadra and the Bombay, Baroda and Central India Railway Company, for the maintenance, management and working of the Dhrangadra railway, with effect from the 1st October 1919.

Main provisions of agreement-

- (i) Land .-- Provided free of cost by the Dhrangadra Durbar.
- (ii) Government aid.—The line is the property of the Dhrangadra Durbar (which provides all funds chargeable to Capital Account) and is managed, maintained, and stocked, and worked by the Bombay, Baroda and Central India Railway Company as part of the Company's Railway System.
- (iii) Terms of working.—

 The Company works the Dhrangadra railway at actual expenses for maintenance of way, works and stations, other than the cost of general supervision (including any single item of capital expenditure not exceeding Rs. 2,000, subject to a maximum charge on such account of an amount bearing the same percentage of gross receipts as obtained for similar expenditure on the Bombay, Baroda and Central India railway 3' 3\frac{3}{8}" gauge system) and 35 per cent. of the gross receipts for general supervision in all departments and all the working expenses under abstracts B to G plus 5 per cent. of the gross receipts for the use of the Company's rolling-stock, etc., subject to a total maximum of 50 per cent. of the gross receipts of the Dhrangadra railway. The residue of the gross earnings after deduction of the charges for working, etc., is payable to the Dhrangadra Durbar each half year, the payment for the first half-year being subject to adjustment at the end of the year.
- (v) Rates and fares.—To be fixed from time to time with the approval of the Durbar, but in the absence of any special agreement between them, they are, as far as may be, to conform to those generally in force on the Bombay, Baroda and Central India railway (3' 3\mathbb{k}" gauge).
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, high Government officials, and Government stores.—Mails and postal officers on duty to be carried at the rates and on the conditions in force from time to time on State railways in British India. (There is no provision for the carriage at special rate of troops, high Government officials and Government stores.)
 - (b) Government bullion and coin and the persons in charge thereof.—Not specified.
- (vii) Power of the Durbar to determine agreement.—
 (viii) Power of the Company to determine agreement.—

 Either party may at any time determine the agreement on giving 12 months' notice to the other. Such notice shall expire only either on the 30th September or the 31st March in any year.
- (1x) Term of agreement [if not determined under (vi) or (vii)].—Not specified.

(h) Dhrangadra railway (3' 33" gauge)—concld.

Statistics of working. (Those for the periods prior to 1918-14 will be found in Appendix 38 to the Raliway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14.)—

		••	•					
Ye	enf.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (1) lines open, and (11) lines partly or wholly under construction.	Gross carnings.	Net carnings.	Percentage of net earnings on total capital outlay given in column 3.	Earnings per mile per week.	Proportion of expenses to carnings
1		2	3	4	5	ប	7	8
1913-14		Miles.	Rs 5,91,236	Rs. 87,131	R*. 42,613	7:33	Rs. 81	51.06
1914-15		40·13	11,37,252	1,15,014	50,780	5·26	55	48·04
1915-16		42·71	14,07,179	1,51,106	72,155	5·13	68	52·25
1916-17	:	42·71	13,93,557	1,19,768	11,623	2 99	54	65·25
1917-18		42·71	14,12,225	1,48,033	57,761	4·00	67	60·98
1918-19		42·71	13,97,241	2,15,:25	14,015	6·73	97	56·32
1919-20	•	10 · 15	14,18,179	1,99,763	97,653	6+88	96	51·12
1920-21		40 · 15	13,93,64 -	- 1,93,151	96,575	6+93	93	50·00
1921-12		40 · 15	14,24,041	- 1,98,935	99,467	6+08	95	50·00
1922-23		40 15	14,72,796	2,71,535	1,35,767	9·22	130	50+00
1923-24		53·71	14,81,309	2,48,810	1,21,405	8·40	114	50 +0 7
1924 -2 5		53·71	14,80,951	2,09,262	1,01,631	7·07	100	50+00
925-26		53·71	14,94,178	2,15,041	1,07,970	7·23	103	50 ·00
926-27		53·84	14,95,800	1,90,960	95,480	6·39	68	50 ·0 0
927-28		53·81	14,95,692	1,75,290	87,645	5·86	63	50·0 0
928-29		40·28	14,98,959	2,51,017	1,25,508	8·37	120	50·00
929-30		40·28	14,95,265	1,97,575	98,787	6·61	94	50·00
930-31		40·28	14,98,686	1,98,181	99,090	6·61	95	50·00
931-32	:	40·28	15,00,533	1,89,259	94,629	6:31	90	00·03
932-33		40·28	15,09,479	2,13,930	1,06,965	7:09	102	00·03
933-34		40·28	15,09,479	2,07,176	1,03,588	6:86	99	00·03
934-35		40·28	15,09,479	2,30,633	1,15,316	7:64	110	50·00
935-36		40·28	15,09,470	2,10,106	1,09,553	7:26	104	50·00
936-37		40·28	15,09,824	2,12,173	1,06,087	7:03	101	50·00
			1	l				

(i) Palanpur-State railway (3' 38" gauge).

Progress in opening-

Section of railway	Section of railway								
<u> </u>		2	3	4					
Palanpur to Decsa		8-11-93	17-11	17-11					

Details of construction-

Permanent-way.—The permanent-way consists of 41½-lb flat-footed steel rails, 2.75 miles of which are laid on cast iron plate sleepers and the rest on wooden sleepers of various kinds.

Ballast.—The line is ballasted with stone and sand.

Fencing.—The line is fenced throughout.

Curves.—The sharpest curve is of 1,910 feet radius.

Gradients.—The ruling gradient is 1 in 150.

l'alanpur-State railway (3' 3" gauge)—contd.

Contracts-

Letter from the Government of India, Public Works Department, No. 352-R.C., dated the 25th March 1892, to the Government of Bombay.

Letter from the Under Secretary of State for India, No. 682, dated the 18th May 1892, to the Board of Directors, Bombay, Baroda and Central India Railway Company.

Letter from the Board of Directors, Bombay, Baroda and Central India Railway Company, No. 611, dated the 20th May 1892, to the Under Secretary of State for India.

Letter from the Under Secretary of State for India, No. 920, dated the 22nd June 1892, to the Board of Directors, Bombay, Baroda and Central India Railway Company.

Letter from the Government of Bombay, No. 1643, dated the 19th August 1892, to the Government of India, Public Works Department.

As to the construction, management, maintenance and working by the Bombay, Baroda and Central India Railway Company, of the Palanpur-Deesa railway as a part of the Rajputana Malwa way.

Contract, dated the 1st February 1901, between the Secretary of State and the Bombay, Baroda and Central India Railway Company, revising, and extending up to the 31st December 1905, the arrangements for the working of the Rajputana-Malwa and other lines.

Contract, dated the 8th April 1907, between the Secretary of State and the Bombay, Baroda and Central India Railway Company, as to the management, maintenance and working, as from the 1st January 1906, of the Bomoay, Baroda and Central India Railway, the Rajputana-Malwa railway and other subsidiary lines

Note.—The Palanpur Durbar has purchased the Secretary of State's interest in the line on and from the 1st April 1934. Agreement for working the line is under correspondence with the Durbar.

Main provisions of contract-

- (i) Land.—Provided free of cost by the Pálanpur Durbar.
- (ii) Government aid.—The railway is owned jointly by the Government and the Pálanpur Durbar, and the former provide any further open line capital funds. It was constructed and is managed maintained, stocked and worked by the Bombay, Baroda and Central India Railway Company as part of the Bombay, Baroda and Central India railway (3' 33" gauge).
- Terms of ivorking.—The railway is debited with a share of the general working expenses of the Bombay, Baroda and Central India Railway Company's system in proportion to the gross earnings of the Pálanpur-Deesa railway.
- (iv) Distribution of profits.—The net earnings, after deducting the working expenses as in (iii) above in any half-year, are to be divided between the Government and the Palanpur Durbar in proportion to the capital provided by each, after excluding (so long as the line remains a 3' 3% one) from the Government capital the sum of Rs. 25,117 the extra expenditure incurred in providing a 5' 6" gauge sub-structure.
- (v) Rates and fares .-
- (vi) Special obligations as to the conveyance of.—

(a) Mails, troops, high Government officials and Government stores.

 A_{9} under Bombay, Baroda and Central India railway gauge).

- (b) Government bullion and coin, and the persons in charge thereof.
- (vii) Power of the Government to determine contract. The agreement is co-terminous with the Company's contract with the of State for working the (viii) Power of the Company to determine contract.-(ix) Term of contract.-Baroda and Central India railway (3' 38" gauge), unless it be decided to extend the railway in which case it will be open to the Government to terminate the working arrangement on giving the

Company six months' notice.

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(j) Bombay, Baroda and Central India Railway (2' 6" gauge)—concld.

Details of contruction -concld.

Curves.—The sharpest curve is of 603.8 feet radius on Broach Jambusar Kavi Railway and 995 ft. on Samni Dehej Railway.

Gradients.—The ruling gradient is 1 in 200 on Broach Jambusar Kavi Railway and 1 in 500 on Samni Dehej Railway.

Contracts.—

Main provisions of contract —

These lines are branches of the Bombay, Baroda and Central India Railway and are worked under the contracts noted under Bombay, Baroda and Central India Railway (5' 6" gauge).

Statistics of working-

Note.—From the year 1936-37 the not earnings/working expenses have been arrived at after taking into account the 'Appropria tion to Depreciation Reserve Fund' instead of actual expenditure on 'Replacement and Renewals' previously accounted for.

Year.	Mileage open at end of each year.	Total capital outlay including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net carnings.	Percentage of net earnings on total capital outlay given in column (3).	Interest.	Gain or loss to the State pertaining to each year.	Earnings per mile per week.	Proportion of expenses to earnings.
	Miles.	Rs.	Rs.	R9.		Rs.	Rs.	Rs.	
1914-15 .	29.78	13,28,661	21,756	11,069	0.83	41,525	-30,456	40	49-12
1915-16 .	29.78	13,95,233	83,433	43,282	3.10	47,294	-4,012	54	48.12
1916-17 .	29.69	14,10,287	89,083	41,632	2.95	46,241	-4,609	58	53.27
1917-18 .	29.69	14,17,183	1,40,739	78,180	5.52	49,090	+29,089	91	44.45
1918-19 .	29.69	14,13,123	1,62,895	1,17,835	8.34	49,265	+68 570	106	27.66
1919-20 .	29.69	14,14,842	1,62,703	88,937	6.29	48,276	+40,661	105	45.34
1920-21 .	29.69	14,43,125	1,58,030	82,237	5.70	47,867	+34.370	102	47.96
1921-22 .	29.69	14,43,668	1,81,047	66,371	4.60	48,916	+17,455	117	63.40
1922-23 .	29.69	14,59,981	2,11,987	1,24,713	8.54	49,171	+75,542	137	41.17
1923-24 .	29.69	14,66,338	2,28,070	1,44,465	9.85	49,903	+94.562	148	36.66
1924-25	:0.69	14,70,655	2,37,922	1,64,976	11.22	50,120	+1,14,856	154	30.66
1925-26	29.69	15,77,151	2,90,194	2.03,230	12.88	50,315	+1,52,915	187	29.97
1926-27 .	29.69	17,42,126	1,65,887	\$4,701	4.86	50,262	+34,439	107	48.04
1927-28	29.69	22,56,073	1,42,874	13,142	1	50,475	-63,617	93	109.20
1928-29 .	29.69	27,60,163	1,59,359	73,594	2.67	51,137	+22,457	103	53.82
1929-30	72.12	32,27,244	1,60,083	-24,399		97,288	-1,21,687	43	115.24
1930-31		32,89,999	2,18,484	7,988	0.24	1,52,250	1,44,262	58	96.34
1931-32 .	72.28	33,07,877	2,65,057	73,063	2.21	1,53,604	80,541	71	72.43
1932-33	72.28	33,88,486	2,77,436	46,635	1.38	1,54,254	1,07,610	74	83.19
1933-34 .	72.28	34,73,252	2,81,579	82,976	2.38	1,56,612	—73,636	75	70.53
1934-35	72.28	34,79,604	2,88,292	1,08,716	3.15	1,54,334	-45,618	77	62.29
1935-36	72.28	34,82,955	2,51,468	57,263	1.64	1,51,481	-91,218	68	77.49
1936-37	72.28	34,89,812	2,71,167	78,276	2.21	1,47,171	68,895	72	71.17

(k) Guzerat-Champaner-Shivrajpur-Pani Light railway (2' 6" gauge)--

Agents.—Messrs. Killick, Nixon & Co., Bongay

Date of registration of the Company. -30th March 1911.

The maintenance and working of the Champaner-Shivrajpur-Pani Light, Godhra-Lunavada and Nadiad-Kapadvanj railways, which were owned by the Guzerat Railways Company were taken over by the Bombay, Baroda and Central India Railway Company, with effect from the 1st April 1922.

The Champaner-Shivrajpur-Pani Light railway was constructed by the Shivrajpur Syndicate, Limited, of Bombay, under the Indian Tramways Act, 1886 (XI of 1886) and acquired by the Guzerat Railways Company, with effect from the 1st April 1915. The Indian Railways Act, 1890 (JX of 1890), was applied to it from the 23rd March 1916, when the tramway order, under which the line was constructed, was revoked.

Progress in opening-

Sections of railway.	Date of opening.	Miles.	7 stal.	Grand total.
1	2	3	4	5
Main line— Champaner Road Junction to Shivrajpur Shivrajpur to Ghanta Ghanta to Nathpura Nathpura to Pani Total	24-1-11 2-4-15 25-5-16 15-11-16	17.16 5.94 3.11 4.47	30•68	

(k) Guzerat-Champaner-Shivrajpur-Pani Light railway (2' 6" gauge) - contd.

Datalls of construction-

Permanent-way.—The permanent-way consists of 293-lb. steel rails on wooden sleepers and 30-ib. rails on steel sleepers.

Ballast.-The line is ballasted with heavy stone ballast

Fencing.—The line is unfenced except at station yards

Curves .- The sharpest curve is of 716 feet radius.

Gradients.—The ruling gradient is 1 in 100.

Contracts and agreement-

- Contract, dated the 30th April 1914 (called the principal contract), between the Secretary of State and the Guzerat Railways Company, as to the construction, maintenance, management and working of the Godhra-Lunavada and Nadiad-Kapadvanj Railways by the Guzerat Railways Company.
- Agreement, dated the 1st April 1915, between the Guzerat Railways Company, Limited, and the Shivrajpur Syndicate, Limited, of Bombay, as to the acquisition by the Company of the Champaner-Shivrajpur Tramway and its extension to Pani, as from the 1st April 1915.
- Contract, dated the 6th December 1917, between the Secretary of State and the Guzerat Railways Company, modifying the principal contract of the 30th April 1914, for maintenance and working of the Champaner-Shivrajpur-Pani Light railway on the terms and conditions applicable to the Godhra-Lunavada and Nadiad-Kapadvanj railways.
- Contract dated the 9th November 1929, between the Secretary of State and the Guzerat Railways Company, modifying the principal Contract of the 30th April 1914 and Supplemental Contract, dated 6th December 1917, as to the working of the Guzerat Railways with effect from 1st April 1922.
- Contract dated the 16th October 1930, between the Secretary of State and the Bombay, Baroda and Contral India Railway Company, as to the working of the Guzerat Railways with effect from the 1st April 1922.
- Contract dated the 1st April 1915, between the Guzerat Railways Company, Limited and the Shivrajpur Syndicate, Limited, as to the conveyance of the Shivrajpur Syndicates ore by the Railways.
- Corrigendum dated the 14th November 1932, to the Contract dated the 9th November 1929, between the Secretary of State and the Guzerat Railways Company, Limited.
- Contract dated the 22nd March 1933, between the Secretary of State and the Bombay, Baroda and Central India Railway Company, modifying the Contract dated the 16th October 1930.

Main provisions of contract and agreement-

- (i) Land.—Land in British territory provided by the Government free of cost to the Company including land permanently or temporarily required for quarrying, ballast, brick fields and kindred purposes.
- (ii) Government aid.—The Government allow to the Guzerat Railways Company in respect of each year by way of rebate, a sum not exceeding the net earnings from all traffic, except the earnings derived from the carriage of stores, interchanged between the Bombay, Baroda and Central India railway, and the Company's railways, as shall, together with the net earnings of the Company, make up an amount equal to interest for the year at the rate of 5 per cent. per annum on the paid up share capital of the Company. Provided that before any calculations are made for the purpose of rebate, interest on leans sanctioned by the Secretary of State for Capital expenditure will first be deducted from the net earnings of the Company's railways. The Government also allow to the Company a sum of rupees seven thousand and two hundred per annum towards the rent of the office of Company and of their Managing Agents and for establishment charges, etc., incurred in the same office in addition to the actual expenses incurred for Directors' fees, travelling expenses, etc., and other miscellaneous expenses.
- (iii) Terms of working.—The Government manage, work, stock and maintain the line through the Agency of the Bombay, Barcda and Central India Railway. The Guzerat Railways are debited with the actual cost of working their lines and a share of working expenses at Nadiad, Godhrda and Champaner Read Junctions as well as a contribution to the Company's provident fund calculated on the same basis as obtains on the Bombay, Barcda and Central India Railway and a sum of Rupees two thousand and two hundred per annum for the conveyance of their earnings to Bombay plus a sum equal to 12½ per cent. on the total working expenses for the year but not less than rupees three hundred per mensem to cover the cost of superintendence and general expenses of management and audit. An amount not exceeding 90 per cent. of the net earnings of the line is paid over to the Company quarterly subject to adjustment at the end of the year.

(k) Guzerat-Champaner-Shivrajpur-Pani Light Railway (2', 6" gauge)-concld.

Main provisions of contract and agreement-concld.

- (iv) Distribution of profits.—When the net earnings of the Company in any year exceed the minimum amount sufficient to give a return of 5 per cent. per annum on the paid up share capital of the Company such excess is to be divided equally between the Government and the Company.
- (v) Rates and fares.—Such as may from time to time be agreed upon between the Government and the Company and the classification of goods to be in conformity with that from time to time in force on State railways of the same gauge.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.
 - (b) Government bullion and coin, and the persons in charge thereof.

To be conveyed at the same rates and under the same arrangements as apply to State railways on the same gauge.

- (vii) Power of the Government to determine agreement.—The Government may, by giving twelve months "notice of purchase," determine the contract on the 31st March 1944 or on the 31st March in the last year of any subsequent period of ten years.
- If the contract is determined by "notice of purchase" the Government shall pay to the Company 25 times the amount of the average net earnings (excluding payments on account of rebate) derived by the Company during the three years immediately preceding the time at which the contract shall be determined, subject to a limit of 20 per cent. in excess of, but not less than, the total capital expenditure of the Company.

The Government may also, by giving twelve months "notice of special purchase," determine the contract at any time in the following cases:—

- (a) when it is considered desirable that the gauge of the railway should be altered;
- '(b) when it is considered desirable to convert the railway into a line of through communication, and
 - (c) when it is considered desirable to extend the railway (without altering the gauge or making the line part of a through route), and the Company is unable or unwilling to supply the necessary capital for such extension.
- If the contract be determined by "notice of special purchase," the Government to pay to the Company 25 times the average net earnings (excluding payment on account of rebate) of the Company during the last preceding three years or 115 per cent. of the total capital expenditure of the Company, whichever may be the greater.
- (viii) Power of the Company to surrender contract.—Nil.
- (ix) Term of contract [if not determined under (vi)].—None specified.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 1 to the Railway Administration Report for 1913-14)—

Year.	Mileago open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earn- ings on total capital out- lay given in column (3).	Rebate from (+), or share of surplus profits to () the Government of India.	Total income.	Percentage of total income on total capital outlay given iu column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8	9	10	11
	Miles.	Rs.	Rs.	Rs.		Rs.	Re.		Rs.	
1913-14 1914-15 .	20·24 20·24	9,38,663 14,08,254	86,769 64,064	25,223 174	1 2.68 , 0.01	••	25,223 174	2.68 0.01	82 61	70·93 99·73
1915-16	24.95	15,27,336	74,279	17.242	1.12	+30,433	47.675	3.12	58	76.68
1916-17 .	32.40	16,37,579	95,325	27,919	1.71	+19,867	47,786	2.92	56	70-71
1917-18 .	32.40	16,25,532	1,25,762	39,366	2.42	+40,446	79,812	4.91	74	68-70
1918-19 .	32.40	16,25,532	1,28,996	27,157	1.66	+53,447	80,604	4.94	56	78.94
1919-20 . 1920-21 .	32·40 33·49	16,56,445	1,63,874 2,06,943	35,634 55,345	2.15	+46,052	81,755	4.93	97	78 • 26
1920-21 .	33.49	16,77,405 20,02,508	1,32,770	—24,394	3.30	+27,889	83,234 92,658	4·97 4·63	119 76	73·26 118·37
1022-23	33.49	20,17,485	2,17,518	79,209	3.94	+1,17,060 +33,656	1,12,865	5.62	125	63.58
1923-24	30.68	20,57,036	2,27,824	32,881	1.59		1,13,917	5.54	143	85.57
1924-25 .	30.68	20,67,703	2,06,267	54,116	2.62	+58,181		5.43	129	73 - 78
1925-26 .	30.68	20,94,008	1,99,298	45,576	2.18		1.19,123	5.69	125	77.13
1926-27 .	30.68	20,98 504	1.75 250	32.113	1.53		1,19,916	5.71	110	81.67
1927-28 .	30-68	21,00,314	1,96,497	70,950	3.38		1,19,890	5.71	123	63.89
1928-29 .	30.68	20,95,534	2,00,464	63,698	3.04		1,16,306	5.55	126	68 • 22
1929-30	30.68	20,95,843	1,71,861	40,668	1.94	+75,671	1,16,339	5.55	103	78.33
1930-31 . 1931-32 .	30.68	20,99,191 21,06,400	1,44,160 1,20,551	21,540 —3,838	1.02		1,16,977	5.57	90	85.06
1931-32 .	30.68	21,06,440	78,719	-3,838 -67,931	• • •		1,18,739 86,184	5·64 4·09	76 49	103·18 186·29
1933-34	30.68	21,06,280	86,774	—13.199	' :: i	+1,54,115 +1,30,896	1,17,697	5.28	54	115.21
1934-35	30.68	21,06,169	84.776	-27.978	::		1,11,873	5.31	53	133.00
1935-36 .	30.68	21,08,999	92,047	-28,734	1		1,11,978	5.31	58	131.22
1936-37	30-68	21,05,806	1,14,742	368	0.01		1,11,810	5.31	72	99.68

(1) Guzerat-Godhra-Lunavada railway (2' 6" gauge).

Agents.—Messrs. Killick, Nixon & Co., Bombay.

Date of registration of the Company .-- 30th March 1911.

The construction of this line by the Guzerat Railways Company was sanctioned by the Railway Board in their letter No. 731-R.C., dated the 13th March 1912. Its maintenance and working were taken over by the Bombay, Baroda and Central India Railway Company, with effect from the 1st April 1922.

Progress in opening-

	Sec	tions	of rail	way.						Date of opening.	Miles.	Total.
			1					 		2	3	4
Godhra to Lunawada Road		•		•						4-12-13	24:06	
Lunawada Road to Lunawada	•	٠	•	•	•	•	•	•	•	1-9-14	1.43	
						Тота	\L			••		25 • 4

Details of construction-

Permanent-way.—The permanent-way consists of 30-lb. flat-footed rails on steel trough sleepers I, S. R. pattern.

Ballast.—The line is laid on coarse and hard sand ballast, covered with quartz ballast.

Fencing.—Only certain station yards have been fenced.

Curves.—The sharpest curve has a radius of 600 feet.

Gradients.—The ruling gradient is 1 in 100.

Contracts, etc.

The same as noted under the Guzerat Champaner-Shivrajpur-Pani Light railway.

Main provisions of contract, etc.—
Statistics of working—

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net carnings.	Percentago of net earn- ings on total capital out- lay given in column (3).	Rebate from (+), or share of surplus profits pay- able to (-), the Govern- ment of India.		Percentage of total income on total capital outlay given in column (3).	Larnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	. 6	7	8	9	10	11
1913-14 . 1914-15 1915-16 1915-17 .	Miles, 24 · 00 25 · 45 25 · 45 25 · 45	11,39,708 13,02,936 12,90,052 12,91,980	Rs. 13,289 45,407 52,342 64,344	Rs. 1,860 4,528 3,559 10,280	0·16 0·34 0·77	Rs. +38,069 +66,906 +53,019	Rs. 1,860 42,597 63,317 63,299	0·16 3·27 4·91 4·90	Rs. 32 34 39 49	86.00 90.03 106.80 84.02
1917-18 . 1918-19 . 1919-20 . 1920-21 .	25·45 25·45 25·45 25·45	12,97,473 13,07,219 13,15,164 13,23,629	54,500 78,602 88,175 1,11,617	-3,537 14,796 12,534 25,174	1.13 0.95 1.90	+67,241 +40,839 +52,385 +38,053	63,704 64,635 64,918 63,227	4·91 4·94 4·93 4·78	41 59 66 84	106-49 81-20 85-70 77-45
1921-22 . 1922-23 . 1923-24 . 1924-25 .	25·45 25·45 25·44 25·43	13,41,131 13,60,666 13,47,820 13,71,460	1,07,671 1,17,168 1,12,205 1,13,277	12,376 10,303 12,931 41,743	0·92 0·76 0·05 3 04	+58,040 +64,715 +61,085 +32,374	70,414 75,023 74,017 74,117	5·25 5·56 5·49 5·40	82 89 85 86	88 · 51 91 · 20 88 · 48 63 · 15
1925-26 1926-27 1927-28 1928-29	25·43 25·43 25·43 25·43	13,83,530 13,91,284 13,94,374 14,08,830	1,17,926 1,06,723 1,21,287 1,63,230	23,418 14,971 26,010 46,489	1.69 1.08 1.87 3.30	+55,288 +64,532 +53,585 +31,704	78,706 79,503 79,595 78,193	5·69 5·71 5·71 5·65	89 81 92 123	80·14 85·97 78·55 71·52
1929-30 1930-31 1931-32 1932-33 1933-34 1934-35 1935-36 1936-37	25·43 25·49 25·49 25·49 25·49 25·49 25·49 25·49	14,11,427 14,16,103 14,16,293 14,16,318 14,16,318 14,16,314 14,16,314 14,19,636	1,25,717 1,05,807 84,922 89,006 75,826 79,337 1,01,458 1,02,690	28,688 11,825 23,421 —1,855 20,396 4,135 19,690 31,784	2.03 0.83 1.65 1.44 0.29 1.39 2.24	+49,659 +67,089 +55,556 +59,801 +58,747 +71,085 *+55,488 *+43,591	78,347 78,913 78,977 57,946 79,143 75,220 75,184 75,375	5.55 5.57 5.57 4.09 5.58 5.31 5.31	95 80 64 67 57 60 62 77	77·18 88·82 72·42 102·08 73·10 91·79 80·59 69·05

[•] Excludes office allowances and managing agency expenses paid to the Company,

(m) Guzerat-Nadiad-Kapadvanj railway (2' 6" gauge).

Agents.-Messrs. Killick, Nixon & Co., Bombay.

Date of registration of the Company.—30th March 1911.

The construction of this line by the Guzerat Railways Company was sanctioned by the Railway Board in their letter No. 546-R.C., dated the 28th February 1911. Its maintenance and working were taken over by the Bombay Baroda and Central India Railway Company, with effect from the 1st April 1922.

(m) Guzerat-Nadiad-Kapadvanj railway (2' 6" gauge) -- concld.

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.
Ţ	2	3	4
A point near Nadiad station to Kapadvanj	5-3-13	28.18	28.18

Details of construction-

Permanent-way.—The permanent-way consists of 30-lb. flat-footed rails laid on steel trough sleepers Indian State Railway pattern.

Ballast.—The line is ballasted throughout with heavy laterite.

Fencing.—The line is unfenced, except in station yards.

Curves.—The sharpest curve is of 716 feet radius.

Gradients.—The ruling gradient is 1 in 100.

Contract, etc.— Main p ovisions of contract.— } The same as noted under Guzerat-Champaner-Shivrajpur-Pani Light railway.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 1 to the Railway Administration Report for 1913-14)—

Year 1	Mileage open at end of ench year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Net earnings.	Percentage of net earn- ings on total capital out- lay given in column (3). 6	Rebate from (-1-), or share of surplus profits to (), the Government of India.	Total income.	Percentage of total income on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenss to earnings.
1913-14 1914-15 1916-17 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27 1927-28 1928-27 1929-30 1929-30 1930-31 1931-32 1931-32 1932-33 1933-34 1934-35 1935-36 1936-37	Miles. 27-86 27-86 27-86 28-01 28-01 28-01 30-06 30-06 30-06 28-17 28-17 28-17 28-17 28-17 28-17 28-18 28-18 28-18 28-18 28-18	Rs. 12,50,471 13,42,442 14,63,525 15,11,305 14,89,403 14,98,441 14,83,341 15,17,671 17,12,536 16,07,302 15,41,877 15,92,005 16,17,667 16,22,407 16,24,441 16,26,776 16,28,648 16,28,842 16,28,842 16,28,842 16,28,842 16,28,842 16,28,842 16,28,842 16,28,842 16,28,842 16,28,842 16,28,842 16,28,842 16,28,842 16,28,842 16,28,856 16,29,556 16,29,556 16,29,555	Rs. 1,02,727 1,19,495 1,33,696 1,44,523 1,57,709 2,05,496 2,23,476 2,57,922 2,38,789 2,58,475 3,10,860 2,01,447 2,62,263 2,14,219 2,13,137 1,80,494 1,70,340 2,06,527 1,80,494 2,14,947 2,58,504 2,14,947 2,58,504 2,78,381	35,861 11,592 80,776 40,836	3·30 2·93 3·82 4·93 4·96 7·45 7·92 8·99 6·01 8·18 12·05 9·62 8·03 6·37 6·58 4·28 4·28 4·28 4·28 4·28 4·28 4·28 4·2	Rs. +4,467 +16,026 +4,229 -812 -37,572 -44,332 -61,880 -20,255 -44,312 -43,191 -93,201 -10,701 -16,722 +20,608 +71,406 +55,051 +10,241 +45,753 *+3,175 *-34,072	Rs. 41,218 43,888 43,888 43,888 43,888 72,112 74,015 73,123 74,059 73,215 83,169 88,140 84,840 93,763 92,710 92,710 90,759 90,827 65,643 90,655 86,555	3·30 3·27 4·91 4·91 4·94 4·93 4·92 4·86 5·57 5·59 5·71 5·71 5·55 5·57 5·58 4·09 5·31 5·31 5·31	Rs. 70 82 92 99 108 141 153 165 153 162 205 179 168 123 116 141 161 147 176	59-88 67-01 58-05 51-69 53-12 45-66 47-40 56-69 49-02 55-62 33-25 48-23 50-32 59-32 59-32 59-32 81-09 65-80 81-09

^{*} Excludes office allowances and managing agency expenses paid to the Company.

(n) Piplod Devgad Baria railway (2' 6" gauge)-

Progress in opening-

	Section of Railway.										Date of opening.	Miles.	Total.
Piplod to Devgad Baria	•		•	•	•	•	•	•	•	•	1-1-29	9•52	9.52

Details of construction-

Permanent-way.—The permanent-way consists of flat-footed steel rails British Standard section weighing 35 lbs. per L. yd. 30 feet long on steel trough sleepers.

Ballast.—The line is ballasted with broken stone.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 1146.3 feet radius.

Gradients.—The ruling gradient is 1 in 100.

Agreement-

Agreement dated the 17th December 1929 between the Baria State and the Bombay, Baroda and Central India Railway Company as to the maintenance and working of the Piplod-Devgad-Baria Railway with effect from the 1st January 1929.

(n) Piplod Devgad Baria railway (2' 6" gauge)-concld.

Main provisions of agreement.-

- (i) Land.—Provided free of cost by the Baria State.
- (ii) Government aid.—Nil. The line with its rolling stock is the property of the Baria State (which provides all funds chargeable to the Capital account) and is managed, maintained and worked by the Bombay, Baroda and Central India Railway as part of the Company's system.
- (iii) Terms of working— The Piplod-Devgad-Baria Railway is debited with the actual cost
- (iv) Distribution of profits—

 Jof working and a share of the working expenses at Piplod junction plus a sum equal to 12½ per cent. on total working expenses in the half-year for supervision, but such supervision shall not be levied unless the net earnings of the Piplod-Devgad-Baria Railway give a clear return of 3½ per cent. per annum on the Capital cost of the line, and then only to the extent that the balance of the net earnings may permit after a clear return of 3½ per cent. per annum has been allowed to the Piplod-Devgad-Baria Railway on the total capital expended, and in addition thereto a contribution from its net earnings to the Company's Provident Fund calculated on the same basis as obtains on the Bombay, Baroda and Central India Railway. The balance in favour of, or against the Baria State is paid over to, or by it, as the case may be, every half-year, the payment for the first half-year being subject to adjustment at the end of the year.
- (v) Rates and farcs.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, high Government officials and Government Stores.
 - (b) Government bullion and coin, and persons in charge thereof.
- (vii) Power of the Baria State to determine agreement.
- (viii) Power of the Company to determine agreement.
- (ix) Terms of agreement if not determined under (vii) and (viii).

As noted under Rajpipla State Railway.

Statistics of working-

Ve	ear. 1		Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net carning.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
			Miles.	Rs.	Rs.	Rs.	!	Rs.	
1923-29	•	•	9.52	7,00,670	6,365	—1, 306	-0.19	13	120.52
1929-30		•	9.52	8,45,413	53,428	26,739	3.16	103	49.95
1930-31			9.52	8,80,996	63,764	30,212	3.42	129	52.62
1931-32			9.52	8,90,221	80,620	40,247	4.52	163	50.08
1932-33			9.52	9,46,154	79,984	38,096	4.03	162	52.37
1933-34			9.52	9,47,939	72,209	27,334	2.88	146	62.15
1934-35			9.52	9,73,217	82,946	36,397	3.73	167	56.12
1935-36			9.52	9,76,666	77,366	30,133	3.08	156	61.05
1936-37			9.52	9,76,927	76,601	35,874	3.67	155	53.17
			l	1	•		1		

(o) Rajpipla State Railway (2' 6" gauge).

Progress in opening-

Section	ns of	Railwa	y.				Date of opening	Mile:	Total.	Grand total
	1						2	3	4	5
Anklesvar to Raj-Pardi		•	•			 •	1-7-97	19.13		
Raj-Pardi to Umalla							19-1-99	4.95		ł
Umalla to Amletha		,					1-6-99	7.85		
Amletha to Nandod station .							20-7-99	5.57		i
Nandod station to Nandod tow	'n						10-11-17	1.74		1
								<u>-</u> -;	39.24	i
Ihagadia to Netrang							1-3-32	19.13		
-								<u>-</u>	19·13	1
		TOTAL	OPEN	MILE	AGE		• •	}		58.37

Details of construction-

Permanent-way.—The line is laid with 411-lb. flat-footed steel and iron rails on half-round jungle teak Sal and Australian sleepers.

Ballast.—The line is ballasted chiefly with coarse river sand.

Fencing.—Only the station yards.

Ourses.—The sharpest curve is of 1,432 feet radius on the Rajpipla State Railway and 478 feet radius on the Jhagadia Netrang Railway.

Gradients.—The ruling gradient on the Rajpipla State Railway is 1 in 150. Between Nandod Station and Nandod Town it is 1 in 100. The ruling gradient on the Jhagadia Netrang Railway is 1 in 75.

(o) Rajpipla State railway (2' 6" gauge)—concld.

Contracts and agreement-

Contract, dated the 8th April 1907, between the Secretary of State and the Bombay, Baroda and Central India Railway Company, as to the management, maintenance and working, as from the 1st January 1906, of the Bombay, Baroda and Central India, the Rajputana-Malwa and other subsidiary lines.

Agreement, dated the 19th November 1917, between the Rajpipla State and the Bombay, Baroda and Central India Railway Company, superseding as from the 10th November 1917, the agreement to 19th March 1900, as to the maintenance and working of the Rajpipla State railway.

The terms of working Jhagadhia Netrang Railway have not yet been settled. When the terms are settled between the Rajpipla State and the B. B. and C. I Railway an agreement will be drawn up and submitted to the Railway Board for ratification.

Main provisions of contract and agreement-

- (i) Land.—Provided free of cost by the Rajpipla State.
- (ii) Government aid.—Nil. The line with its rolling stock is the property of the Rajpipla State (which provides all funds chargeable to the capital account), and is managed, maintained and worked by the Bombay, Baroda and Central India railway as part of the Company's system.
 (iii) Terms of working.
- and a share of the working expenses at Anklesvar Junction, plus a sum (iv) Distribution of profits. equal to 12½ per cent. on total working expenses in the half-year for supervision, but such supervision shall not be levied unless the net earnings of the Rajpipla State railway give a clear return of 3½ per cent. per annum on the capital cost of the line, and then only to the extent that the balance of the net earnings may permit after a clear return of 3½ per cent. per annum has been allowed to the Rajpipla State railway on the total capital expended, and in addition thereto a contribution from its net earnings to the Company's Provident Fund calculated on the same basis as obtains on the Bombay, Baroda and Central India railway. The balance in favour of, or against, the Rajpipla State is paid over to, or by it, as the case may be, every half year, the payment for the first half year being subject to adjustment at the end of the year.
- (v) Rates and fares.—Are to be fixed from time to time by the Company in communication with and subject to the approval of His Highness' Government.
- (vi) Special obligations as to the conveyance of.—

 (a) Mails, troops, high Government officials and Government stores.

 (b) Government bullion and coin, and the persons in charge thereof.

 As under Petlad-Cambay (Anand-Tarapur section).
- (vii) Power of the Rajpipla State to determine agreement.

The agreement may be determined by either party, on one year's notice from either side expiring on the 31st March of any year.

- (viii) Power of the Company to determine agreement.
- (ix) Term of agreement [if not determined under (vii) and (viii)].—Not specified.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14.)—

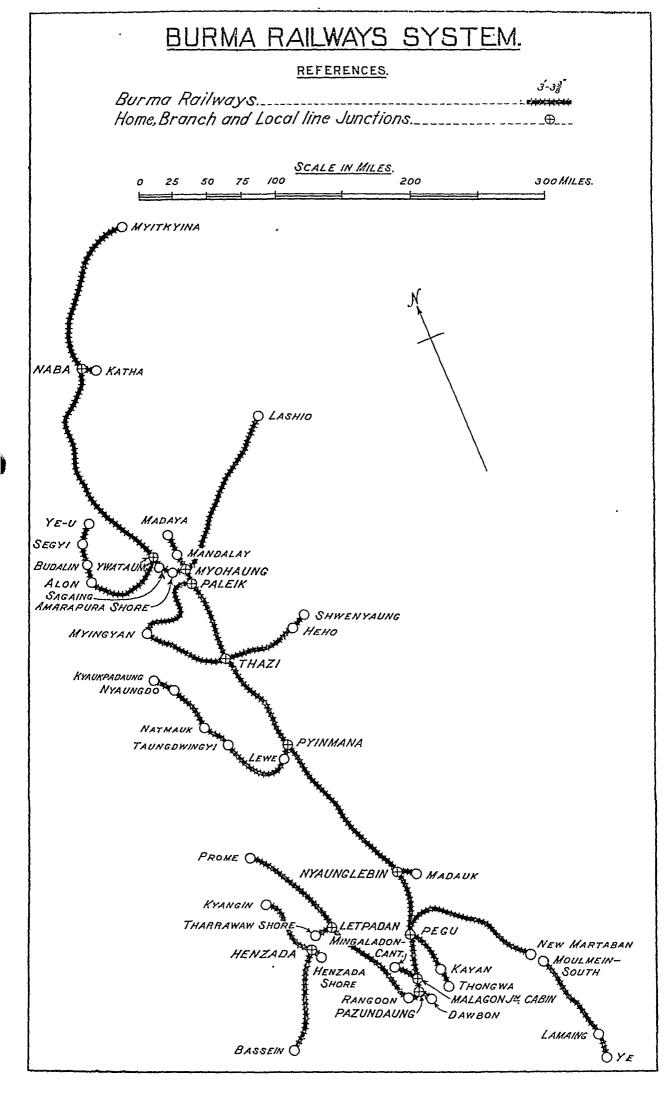
Year	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings 5	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week,	Proportion of expenses to earnings.
1913-14 1914-15 1915-16 1916-17 1917-18 1917-18 1919-20 1020-21 1020-21 1021-22 1022-23 1023-24 1023-24 1024-25 1025-26 1025-26 1026-27 1027-28 1028-29 1029-30 1030-31 1031-32 1932-33 1033-34 1033-34 1033-34 1033-36	Miles. 37:37 37:37 37:37 37:50 39:24 39:24 39:24 39:24 39:24 39:24 39:24 39:24 39:24 39:24 39:24 39:24 58:06 58:06 58:06 58:06 58:06	Rs. 14,18,501 14,29,469 14,72,251 16,26,463 17,13,068 17,27,649 17,33,108 17,40,075 17,57,913 17,66,512 17,70,871 17,78,671 17,79,06 18,17,731 18,36,700 18,39,333 18,50,579 18,58,774 *18,80,642 *18,91,468 *18,94,947 *19,21,301	Rs. 1,29,663 1,28,585 1,28,696 1,18,809 1,35,561 1,62,933 1,58,857 1,69,299 1,62,938 1,98,899 2,49,305 2,67,175 3,09,265 2,21,607 2,17,055 2,21,607 2,17,055 2,32,957 2,33,006 2,41,164 2,50,259 2,57,021 2,27,848 2,38,889	Rs 45,365 49,078 58,794 50,529 49,646 68,346 46,388 48,037 21,869 61,677 1,17,011 1,37,304 1,51,243 74,338 74,638 65,465 61,309 72,911 66,239 74,457 83,391 51,546 65,650	3·20 3·48 3·90 3·11 2·91 3·96 2·68 2·76 1·24 3·49 6·61 7·72 8·40 4·09 4·06 3·56 3·31 3·92 3·54 3·90 4·40 2·72 3·41	Rs 67 66 66 66 61 66 80 78 83 80 97 122 131 152 109 106 114 118 77 83 85 75	65·01 61·37 54·32 57·47 63·23 58·05 70·80 71·63 66·58 68·99 53·06 48·61 51·10 66·46 65·61 71·90 73·69 69·77 71·33 70·25 67·55 77·38 72·52

The amount of Capital expenditure incurred on the Jhagadia Netrang Railway is not yet known from the Durbar.

5. BURMA RAILWAYS (3' 33" GAUGE).

The Burma Railways (3' 3\frac{3}{8}" gauge) was originally known as the Burma State Railways. In 1896 the Burma Railways Company was formed for the purpose of taking over the working of the original system and extending it by the construction of other lines, particularly one from Mandalay to Kunlong. The railways taken over by the Company from Government in 1896 comprised the following lines:—Rangoon to Prome on the Irrawaddy river; Rangoon to Mandalay, and thence to the bank of the Irrawaddy, opposite Sagaing; Sagaing to Myitkyina with a branch to Katha, whence there is communication by river with Bhamo. The contract with the Company was determined and the line was again brought under direct State management from 1st January 1929.

Progress in opening—						1 Date				
Sections of	rail	way.				of	Miles.	Total.	Grand total.	REMARKS.
1						opening. 2	3	4	B	6
IRRAWADDY SECTION— Rangoon to Prome			•			1-5-77	161.00	161.00		
SITTANG SECTION— Main Ling—						1			£	
Rangoon to Nyaunglebin Nyaunglebin to Toungoo	:	•	:	:	:	4-2-84 1-7-85	93·00 73·00	166.00		
Branches-						(1-3-80	6.00	100 00		† Worked
Suburban linest		•				15-7-90	ļ			for goods traffic only.
Malagon to Bauktaw‡ . Bauktaw to Kanbe . Kanbe to Cantenment .	• •	:	•	· •	:	25-8-11 13-1-26 6-3-26	3.00 1.70 1.02 6.03			‡ Worked for pas- senger
Mandalay Section— Main Line								17.75		traffic only
Toungoo to Pyinmana . Pyinmana to Yamethin .	•		•	•		1-5-88 15-11-88	59·00 49·00			-
Yamethin to Mandalay Mandalay to Madaya .	:		:	:		1-3-89 5-2-27	112·00 16·93			-
Branches—							 	236.93		
Myingy in branch— Thazi to Maistila Meiktila to M_ingyan	:	:	•	:	:	10-5-93 15-11-99	12·89 57·21			
Man lalay Shore branch— Mandalay to Mandalay Sl	ore			•		13-4-89	2.50	70.10		
Mu Valley section-								2.50		
Main Line-										
Myohaung to Amarapura Sl	1070	•				22-11-91	6.00	İ		
Amarapura Shore to Shweb	٠.					1-7-91	55-69			
Shwebo to Wuntho .		•		•		4-4-92	99-46			
Wuntho to Nankan .						1-11-94	15.46			
Nankan to Mohnyin .		•				21-10-95	74.35			
Mohnyin to Mogaung .						1-3-96	52.34	<u> </u>		
Mogaung to Myitkyina .						1-1-98	36-63			
								339-93		9
Branches—			€.				:			
Sagaing-Alon branch—					ĺ					
Ywataung to Alon . Katha branch—	•	•	•	•	•	15-4-00	70.46	70•46		
Naba to Katha .					.	2-10-95	15.00			
Mandalay-Kunlung section-								15.00	Ī	
Myohaung to Sedaw .						1-1-98	13.45			
Sedaw to Maymyo .					ļ	1-4-00	26.10	•	~	
Maymyo to Nawnghide .						20-5-00	34.10			
Nawnghkio to Hsipaw .		•				1-6-01	53 • 25		İ	
Hsipaw to Lashio .					.	1-3-03	50·94		`	
								177·84		
			•					111'04	1	
	•	Carried	over	•			••		1,257.51	





Section	s of railw	ay.			Date of , opening.	Miles.	Total	Grand total	REWARES
	1				2	3	4	5	6
Bassein-Henzada-Letpada		Brought	forwa	rd	•	••		1,257-51	
Suburhan line at Bassei Bassein to Henzada Henzada to Henzada Sl	n* , iore .	:	· ·	:	. 15-1-04 15-12-02 20-3-03	82.25	.		Worked for goods
Tharawaw on the east t	ank of th				20-3-03	23.07			only.
Pegu-Moulmein extension-		T):\			15.05		110.98		
Pegu to Nyaungkhashe Nyaungkhashe (Sittang Kyaikto to Kawkadut Kawkadut to Martaban Thanlwin-wa to Martab	River) to	Kyaik: Moulm	to ein)	•	15-4-07 15-8-07 14-9-07 25-9-07 12-10-27	31.50 15.85 11.00 63.77 0.89			
Henzada-Kyangin extension-	-					!	123.01		
Henzada to Danbi Danbi to Kyangin.		:	:		1-7-07 14-12-08	13·50 52·16			1
Southern Shan States Section-						·	65.66		
Thazi to Kywedatson Kywedatson to Yinmab	in .	•			000014	16.05 6.95			
Yınmabin to Kalaw		•	•		15-12-14	39.49			
Aungban to Heho		:	•	: :	10-3-21	7·19 16·80			
Heho to Shwenyaung		•	•	• •	2-5-28	11.25	97.73		
Pyinmana-Taungdwingyi-Kyo Pyinmana to Lewe			n		1-8-22	10.26			
Lewe to Kantha . Kantha to Taungdwingy Taungdwingyi to Natma		•	•		27-4-24 15-12-24	5.82]	
Taungdwingyi to Natma	uk .		•		16-3-28	50·71 25·00			
Natmauk to Nyaungdo Nyaungdo to Kyaukpad		•		:	21-12-29 17-7-30	35.85			
Alon-Ye-u section— Alon to Budalin					1-7-22	14.00	138.61		
Budalin to Segyi Segyi to Ye-u	•				10-6-23	12.51		[[_
	•	•		•	1-7-26	22.97	49.48]]	
Moulmein-Ye railway— Moulmein to Mudon .					2-8-23	15.11			
Mudon to Kalawthut . Kalawthut to Thanbyuza	.vat		•	•	1-2-24 24-4-24	11.50 8.60			
Thanbyuzayat to Karoki	oi .		•	:	1-7-24	8.46			
Karokpi to Tinyu . Tinyu to Lamaing					23-10-24 17-1-25	7·59 18·43			
Lamaing to Yo				•	16-4-25	19.56	89.25		
Pegu-Kayan-Thongwa section- Pegu to Kayan	-				15 1 97	20.00	00 20		
Kayan to Thongwa .	•	: .	•	:	15-1-27 15-12-28	36.96 10.80			
Nyaunglebin-Madauk Railway							47.76		
Nyaunglebin to Madauk Myingyan-Natogyi-Paleik Rai		• •	•	•	15-8-29	11.06	11.06		†Opened
Myingian to Myotha .	•			•	‡13-1-30	42.24			for goods traffic
Myotha to Paleik .	•		•		13-1-30	26.62	68-86		only. ‡Opened
•	Potal ope	n milea	ge .			••		2,059.89	for traffic of all des-
									criptions.
Double line—					ı				
rrawaddy section—							[1	
Rangoon to Kemmendine Kemmendine to Insein	•		•	•	30-10-89 10-1-90	3·50 5·50			
Insein to Hlawga Hlawga to Mogyobyit .	•		:		25-8-05	7-92			
Mogyobyit to Hmawbi	:	: :	:		1-10-07 23-11-07	3·25 4·13	-		
Hmawbi to Wanetchaung	•	• •	•	.	14-2-08	5.00	29:30		•
littang section— Rangoon to Pazundaung					1.001		29.30		
Pazundaung to Thingangy	un .	: :	:	:	1-6-01 19-4-05	0·70 3·40			
Thingargyun to Togyaung Togyaunggale to Tewaingg	gale yi .	• •		:	2-1-10 30-11-07	2·71 4·08		1	
Tewainggyi to Ledaunggan		• :	:		23-11-07	4.71		1	
Ledaunggan to Dabein . Dabein to Tongyi .	•	• •	:	•]	10-1-08 3-1-10	6·69 7·75			
Tongyi to Kyauktan Kyauktau to Payathonzu	•	• •	•	• [4-1-09	4.06	-		
Payathonzu to Pegu .	•	. :	•		15 2-09 4 1-09	8·26 3·51			
	Ca	arried ov	er		t		45.87	75-17	
						<u> </u>			_

5. BURMA RAILWAYS - contd.

Progress in opening-concld,

Section of ra	ilwa	у.				Date of of opening.	Miles.	Total.	Grand total.	REMARKS
1						2	3	4	5	6
		Brough	t for	ward		•	•		75 · 17	
Pegu Kyungon section—		Ū						'	1	
Pegu to Shwehle		•				10-8-11	5.57		1	
Shwehle to Payagyi .						26-5-11	4.91			
Payagyi to Pyinbongyi .						22-5-11	7.83		[
Pyinbongyi to Kadok .						1-8-11	6.25		[.	
Kadok to Paungdawthi .						2-10-11	4.73		į i	
Paungdawthi to Dailor .						26-5-11	5.30		i i	
Daiku to Pyuntaza						3-8-11	6.73		ĺ	
Pyuntaza to Nyaunglebin						23-9-24	5.00		1	
Nyaunglebin to Kyauktaga						8-12-24	16.00			
Kyautaga to Penwegon					. !	20.3.25	5.47			
Penwegon to Pyu .						8-1-25	10.01			
Pyu to Nyaungchidauk						15-4-26	9.11			
Nayungchidauk to Oktwin					. 1	28-5-26	15.01			
Oktwin to Kyungon .					. 1	23-7-26	17.41			
Ontaine to any image.					1			129-23	1	١.
Mandalay section—					[1	
Myohaung to Mandalay		•	•		٠,	3-10-00	2.45	2.45)	
TOTAL I	опв	LE LIN	F.		.	.,			206.85	•

Details of construction-

Permanent-way.—The rails in use on the system are 75 lb., 60 lb., 50 lb. and 41¼ lb. flatfooted steel.

The sleepers throughout the system are of Burma Teak, Pyinkado, Thitya-Ingyin, Padauk
Pyinkado largely predominating.

Ballast.—The ballast used is either broken stone or shingle.

Fencing.—The main line from Prome to Rangoon and Rangoon to Mandalay are fenced. The Henzada-Bassein section and Pegu-Martaban branch (except between Thanlinwa and Martaban) are unfenced except at station yards and more important level crossings. The Mu.-valley line is generally unfenced except at stations. The Lashio, Myingyan, Sagaing-Alon, Alon-Ye-U, Henzada-Kyangin, Moulmein-ye, Pyinmana-Natmauk-Kyaukpadaung, Southern. Shan States and Kayan-Thongwa branches are unfenced except at certain stations.

Curves.—The sharpest curve is of 337 feet radius which occurs on the Lashio branch and the Southern Shan States branch.

Gradients.—The ruling gradient on the main line (Prome to Rangoon, Rangoon to Mandalay and Myohaung to Amarapura shore) is 1 in 200 except for a short length at mile 124 on the Prome branch, where it is 1 in 150; on the Mu.-Valley section, from Sagaing to Kanbalu, 1 in 200 uncompensated, Kanbalu to Naba 1 in 100 and Naba to Myitkyina 1 in 100 uncompensated with a banking section from Mawhan to Mohnyin of 1 in 60 uncompensated. On the Lashio branch it is 1 in 25 compensated between Sedaw and Thondaung and 1 in 40 compensated between Thondaung and Lashio, on the Myingyan branch, 1 in 100 uncompensated, on the Sagaing-Alon branch 1 in 150 uncompensated, and on the Katha branch 1 in 50 uncompensated. Between Letpadan and Tharawaw and Henzada and Bassein it is 1 in 200. On the Alon-ye-U, Pegu-Moulmein, Henzada-Kyangin, Moulmein-ye, Pyinmana-Taungdwingyi-Kyaukpadaung, Southern Shan States Kayan-Thongwa Naunglebein-Madauk and Myingyian-Natogyi-Paleik Railways the gradients are 1 in 150, 1 in 300, 1 in 200, 1 in 200, 1 in 25 and 1 in 300, 1 in 300 and 1 in 100 respectively.

Contracts-

Nil. All the contracts between the Secretary of State and the railway company were determined on the 31st December 1928 and the line was brought under direct state management with effect from 1st January 1929.

With regard to the Moulmein-ye branch the Government of Burma pays the Central Government by way of guarantee the difference by which the interest charges on the actual Capital expenditure of the Railway calculated at 6 per cent. per annum exceed the net earnings of the line.

The net earnings are arrived at as follows :-

To the gross earnings of this branch line shall be added the additional gross earnings accruing to the Main Line due to the construction of this branch. The working expenses to be deducted from the aggregate gross earnings thus arrived at will be a percentage of such aggregate gross earnings calculated at a rate 5 per cent. higher than the operating ratio prevailing each year on the whole Burma Railways system.

The maximum amount of guarantee payable in any one year is Rs. 72 lakhs.

If in any year the net earnings exceed the interest charges the difference will be paid to the Local Government and this procedure will continue until the total amount paid by the Local Government as guarantee is repaid, after which the line will be considered as a remunerative one and the arrangement regarding guarantee will cease to operate.

5. BURMA RAILWAYS SYSTEM-concld.

(a) Burma Railways (3'-33" gauge) Statistics of Working-

Note.—The Statistics of Working shown in this Table from 1897 to the end of 1927-28 relate to main line only according to the Company's system, those for Branch Lines being shown in tables (b) to (h). The statistics of working from 1928-29 are for the entire State Railway system.

Year.	Milcago open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings,	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Amount of rebate payable to the Southern Shan States railway.	Interest.	Company's share of surplus profits (based on terms of contract) attributable to each year.	Gain or loss to the State pertaining to each year	Earnings per mile per week,	Pro- por- tion of expen- ses to earn- ings.
1	2	3	4	5	6	7	8	9	10	11	12
1897 1898 1899	Miles. 886-50 936-13 993-34 1,124-00	Rs. 8,73,31,890 9,24 93,509 10,11,17,647 11,03,99,635	Rs 86,76,403 89,91,451 88,25,724 1,10,29,947	Rs 38,82,673 37,88,523 35,78,407 48,94,824	4·45 4·10 3·54 4·43	••	Rs. 38,31,674 39,49,899 36,35,209 38,49,026	Rs. *1,13,696 1,94,988 1,67,935 4,22,384	Rs. -62,697 -3,56,364 -4,24,737 +6,23,414	Rs. 18 18 17 19	55 52 57 • 87 59 • 45 55 • 62
1901 . 1902 . 1903 . 1904 .	1,177.70 1,260.50 1,336.97 1,340.15 1,340.15	11,99,22,408 12,70,23,590 13,01,31,876 13,34,32,891 13,55,91,056	1,18,85,329 1,25,02,671 1,36,14,478 1,51,02,418 1,57,75,957	49,89,656 52,72,683 52,19,322 65,70,760 61,81,063	4·16 4·15 4·01 4·92 4·56	••	40,41,108 43,94,823 44,00,500 44,71,268 45,35,974	6,90,759	+5,09,624 +6,28,795 +3,74,846 +14,08,733 +10,42,182	198 203 198 217 226	58.02 57.83 61.68 56.49 60.82
1906 . 1907 . 1908 . 1909 . 1910 . 1911 .	1,340·15 1,340·15 1,340·15 1,340·15 1,340·15 1,341·85 1,341·85	13,97,87,368 14,50,55.112 15,13,05,482 15,50,28,745 16,04,60,604 16,48,65,768 17,01,08,309	1,57,32,205 1,66,16,416 1,79,07,641 1,83,49,539 1,85,32,674 1,92,44,330 2,02,44,872	58,61,913 59,31,463 71,74,075 66,59,920 71,60,233 66,72,090 81,76,037	4·19 4·09 4·74 4·30 4·46 4·05 4·81		46,13,499 43,40,484 46,94,333 44,55,997 49,39,611 49,91,981 51,39,866	5,28,858 5,21,825 7,61,052 9,70,207 11,39,494 9,71,526 14,53,577	+10.60.154	226 238 257 263 266 276 290	62.74 64.30 59.94 63.70 61.38 65.33 59.61
1st qr. of 1913 1913-14 1914-15 1915-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27 1927-28	1,341-85 1,341-85 1,341-85 1,341-85 1,341-85 1,348-37 1,348-37 1,348-37 1,348-37 1,348-37 1,341-85 1,341-85 1,341-85 1,341-85 1,341-85	17,10,28,173 17,48,43,821 17,72,23,413 17,80,91,834 17,91,23,927 17,81,94,701 17,75,15,073 17,80,56,333 18,25,63,003 18,75,82,212 19,38,45,944 20,05,68,910 20,58,60,633 21,18,02,802 21,87,18,530 22,74,40,191	68,77,451 2,24,77,965 2,16,56,550 1,99,85,692 2,23,20,383 2,22,74,705 2,63,29,288 2,96,86,497 2,93,06,542 3,18,57,404 3,63,22,989 3,72,61,855 4,40,03,741 4,08,03,121 4,40,654	1,61,43,592	2·30 5·98 5·34 4·74 6·05 5·87 7·48 5·22 7·64 7·42 7.84 9·25 7·38 8·59	33,054 43,689 48,921 54,685 63,312 69,785 89,685 94,335 85,149 95,669 89,118 1,08,676	13,07,826 54,01,568 55,36,357 56,05,925 54,39,534 56,39,287 54,97,421 50,64,310 50,98,450 66,08,772 60,67,702 63,87,637 66,08,718 69,02,460 75,99,768	10,02,157 21,70,845 17,75,528 14,11,122 22,06,333 20,72,760 34,50,441 20,27,460 16,81,717 32,83,238 32,28,513 36,46,065 17,55,120 34,14,521 44,3,202	+16,20,052 +28,78,353 +21,48,401 +14,16,213 +31,51,298 +27,20,514 +39,73,027 +47,40,600 +23,34,042 +22,23,611 +53,73,293 +51,62,604 +78,41,835 +54,03,236 +74,03,369	304 322 310 286 322 319 376 423 419 454 524 562 631 576 626	42.86 53.50 56.32 757.80 31.48 52.93 55.13 67.57 69.25 59.44 60.08 58.07 55.47 60.53 56.04
1028-29 . 1029-30 . 1030-31 . 1031-32 . 1032-33 . 1033-31 . 1034-35 . 1035-36 .	1,930·51 2,046 28 2,057·25 2,057·25 2,057·25 2,055·61 2,059·89 2,059·89 2,059·89	32,76,05,857 34,75,53,630 35,31,29,263 35,80,35,965 35,05,51,828 35,19,96,088 35,02,69,143 34,91,32,005 34,69,13,219	4,97,79,915 4,86,92,350 4,23,18,753 3,73,59,878 3,47,43,554 3,66,47,300 3,78,32,623 3,61,50,848 3,70,22,287	1 96,78,531 1,80,39,224 1,00,26,907 88,75,313 74,53,611 85,48,670 93,20,780 78,14,709	6.01 5.10 3.00 2.48 2.13 2.43 2.66 2.24 3.05		1,21,80,173 1,40,59,250 1,58,96,238 1,60,96,165 1,50,57,644 1,51,53,672 1,50,21,532 1,40,72,164 1,41,90,447	‡18.17,337	+11 41,438(a) +44,49,645(a) +44,49,645(a) -44,43,281(a) -66,87,531(a) -70,64,094(a) -51,05,515(a)(b) -62,52,30,068(a)(b) -30,48,906(a)(b)	496 458 396 349 325 342 352 336	60·47 62·95 74·18 76·24 78·55 76·67 75·36 78·38 71·45

^{*} From 1st September 1896 to 31st December 1897.

[†] The Secretary of State's capital and the Company's capital which determine the share of surplus net carnings of each were ±5,750,000 and £3,000,000, respectively during the year.

[‡] For nine months to 31st December 1928.

⁽a) Including the amount of guarantee received from the Government of Burma in connection with the Moulmein-ye branch.

⁽b) Includes the contribution of Rs. 1,00,000 received from the Government of Burma towards the Ava Bridge from the year 1933-34.

(b) Statistics of working of Moulmein-ye Branch-

Note.—The figures from 1928-29 are also included in the statistics of working of the Burma Railways system given in Table (a).

Year.		Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Not carn- ings.	Percentage of net carn- ings on total capital out- lay given in column (3).	Interest.	Guarantee payable by the Local Govern- ment in respect of the work- ing. 8	Gain or loss to the State pertaining to each year.	Earnings per milo per week.	Proportion of expenses to earnings.
		Miles.	Rs.	Rs.	Rs.	 	Ro.	Rs.	Rs.	Rs.	
1923-24		26.61	79,56,580	28,346	16,300	0.20	3,72,771		-3,56,471	46	42.50
1024-25	•	69-69	98,73,464	1,87,902	91,096	0.95	4,93,892	4,11,417	+11,621	75	49.92
1925-26		89-25	1,03,29,662	3,60,995	1,93,508	1.87	5,71,748	3,79,444	+1,201	78	46.40
1926-27	•	89 • 25	94,78,477	4,08,722	1,97,425	2.08	5,37,791	3,97,933	+57,567	88	51.70
1927-28	٠	89-25	96,57,916	4,09,149	1,46,276	1.51	5,14.770	3,99,892	+31,398	88	64-29
1928-29	•	89.25	97,23,077	2,23,436	88,324	0.91	5,45,576	4,90,467	+33,215	48	60.47
1929-30		89•25	98,35,822	2,06,720	1,09,935	1.12	5,19,289	4,68,671	+59,317	64	62.95
1930-31		89-25	99,25,372	2,53,285	65,398	0.66	5,63,194	5,26,050	+28,254	55	74 · 18(a)
1931-32		89 • 25	99,57,777	2,44,156	58,011	0.58	5,61,699	5,33,321	+29,633	53	76·24(a)
1932-33		89 • 25	99,98,537	2,12,677	45,619	0.46	5,52,790	5,39,939	+32,738	46	78·55(a)
1933-34		89.25	1,00,03,316	2,17,222	50,678	0.51	5,43,050	5,11,776	+22,404	47	76·67(a)
1934-35		89.25	1,00,56,521	2,22,137	51,735	. 0.24	5,21,556	4,05,237	+28,416	48	75·36(a)
1935-36	•	89.25	1,00,63,468	2,34,537	50,707	0.50	5,08,030	5,04,387	+47,064	50	78·38(a)
1936-37	٠.	89 · 25	1,00,62,936	2,43,960	69,651	0.69	4,86,053	4,71,781	+55,379	52	71 ·45(a)

⁽a) Percentage obtaining for the Burma Railways as a whole.

(c) Statistics of working of Alon-ye-u railway:-

Statistics of working-

NOTE .- The figures from 1928-29 are included in table (a).

Year.	Mileage open at end of each year.	Total capital outlay, including suspense to end of the year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Net carnings.	Percentage of net earnings on total capital outlay given in cloumn (3).	Interest.	Gain or loss to the State pertaining to each year.	Earn- ings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8	δ	10
	Miles.	Rs.	Rs.	Rs.	,	Rs.	Rs.	Rs.	
1922–23 .	14.00	19,42,020	18,107	9,691	0.50	78,590	68,899	33	46-48
1923-24	26.51	25,46,850	49,440	23,261	0·91	1,10,291	87,030	39	52-95
1924-25	26.51	19,85,699	65,781	31,960	1.61	1,10,314	—78,354	48	51·41
1925-26 .	26.51	19,88,724	94,737	50,967	2.56	1,12,476	61,509	69	46.20
1926-27	49.48	27,93,420	1,45,411	55,499	1.99	1,62,316	1,06,817	57	61-83
1927-28	49-48	28,56,047	2,06,205	73,399	2.57	1,51,971	78,572	80	64-40
	1	1		1	l	i	1		

(d) Statistics of working of Burma railways extensions-

Note.—The	figui	es from 1	928-29 are includ	ed in table (a).						
Year.		Mileage open at end of each year.	Total capital outlay including sus- pense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Interest.	Company's share of surplus profits (based on terms of contract) attributable to each year.	Gain or loss to the State pertaining to each year.	Earn- ings per mile per weck.	Proportion of expenses to earnings.
1		2	3	4	5	6	7	8	ษ	10	11
		Miles.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	Rs.	
1907 -		134.77	1,64,71,233	1,68,518	70,441	0.43	2,10,263		1,39,822	82	58.20
1908		186-93	1,99,85,700	9,01,008	4,55,558	2.28	6,96,054		2,40,496	93	49.44
1909 .		186-93	2,11,46,631	11,19,902	4,27,510	2.02	6,97,884		2,70,374	115	61.83
1910 .		186-93	2,13,87,484	12,92,969	4,75,061	2.22	7,10,276	•••	2,35,215	133	53.26
1911 .		186-93	2,15,43,179	14,26,979	5,23,234	2.43	7,28,480		-2,05,246	147	63.33
1912 .		186-93	2,19,58,911	16,49,154	6,95,299	3.17	7,42,258	9,835	56,794	170	57.84
1st qr.											
of 1913 .	•	186-93	2,19,56,599	5,53,883	2,81,408	1.28	1,86,586	23,163	+71,659	228	49.19
1913-14 .	•	186-93	2,20,24,165	21,84,418	10,16,827	4.62	7,65,057	78,717	+1,73,053	225	53.45
1914-15 .	•	186.93	3,21,11,074	16,42,874	5,11,249	2.31	7,71,293	٠.	-2,60,044	169	68.38
1915-16 .	•	186-93	2,20,45,399	17,57,133	6,61,927	3.00	7,66,222	2,135	-1,06,430	181	62.33
1918-17 .	•	186.93	2,20,39,576	20,69,109	9,73,906	4.42	7,26,186	76,635	+1,71,085	213	52.94
1917-18 .		186.93	2,19,26,373	20,58,705	9,39,431	4.28	7,62,577	74,150	+1,02,704	212	54.37
1918-19 .	•	186-93	2,18,47,137	25,45,496	11,17,591	5-12	7,61,158	1,26,093	+2,30,340	262	56.10
1919-20 .	•	187.78	2,18,80,164	27,14,727	9,98,424	4.56	7,39,706	87,165	+1,71,553	278	63.22
1920-21 .	•	187.78	2,20,57,000	26,98,500	7,20,443	3.26	7,28,306	25,525	33,338	276	78.70
1921-22 .		187.78	2,21,31,188	27,78,464	8,27,619	3.74	7,35,321	57,305	+34,793	285	70.21
1922-23 .	•	187-78	2,40,10,624	33,32,965	12,68,757	5.29	7,88,520	1,40,651	+3,39,586	341	61.93
1923-24 .	•	187.78	2,58,39,045	32,52,090	10,45,917	4.05	8,96,174	67,992	+81,751	333	67.84
1924-25 .		187.78	2,59,77,707	34,18,613	12,89,748	4.96	9,46,335	1,20,544	+2,22,869	350	62.27
1925-26 .		187.78	2,68,77,278	38,79,329	16,69,262	6.21	9,80,359	1,92,588	+4,96,315	397	56.97

(e) Statistics of working of Pyinmana-Taungdwingyi-Kyaukpadaung Railway—Note.—The figures from 1928-29 are included in table (a).

36,29,835

40,40,402

15,37,903

14,83,666

10,33,355

10,89,701

5.43

5.10

2,83,01,386

2,90,75,071

187.78

188 - 67

1926-27 .

1927-28 .

Year.	Mileage open at end of each year.	Total capital outlay including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Interest.	Gain or loss to the State per-training to the year.	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8	9	10
	Miles.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	-
1922-23	10.26	38,36,245	37,379	20,005	0.52	1,69,554	1,49,549	106	46-48
1923-24	10-26	59,02,872	65,598	32,811	0.56	2,77,078	-2,44,267	123	49-98
1924-25	66-79	70,82,609	89,247	44,488	0.63	3,59,698	3,15,210	56	50-15
1925-26	66-79	73,58,708	3,32,079	1,77,906	2.42	4,08,689	-2,30,783	96	46-43
1926-27	66.79	68,14,961	3,39,517	1,34,855	1.98	3,84,815	-2,49,960	98	60.08
1927-28	91.79	93,27,453	4,20,368	1,50,990	1.62	3,75,127	2,24,137	88	64.08

+3,56,248

+2,77,291

372

412

57.62

63 • 28

1,48,300

1,16,674

(f) Statistics of working of Southern Shan States Railway-

Norr....The foures from 1928-29 are included in table (a).

Nor	z.—The fou	res from 1925-2	Jare incim	ea in iaoie (i									
Year.	Mileage open at end of each year.	Total capital outlay including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construc- tion.	Gross earnings.	Net carnings.	Percentage of net carnings on total epaital outlay given in column (3).	Amount of rebate receiv- able from Burma Railways main line.	Total income.	Per- centage of total income on total capital outlay given in column (3).	Interest.	Company's share of surplus profits (based on terms of contract) attributable to each year.	Gain or loss to the State portaining to each year.	Carnings per mile per week.	Pro- portion of expense to carnings
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Miles.	Rs.	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Re.	Rs.	
1912 .	16-05	83,94,878	11,090	7,927	0.09							25	28-52
1st qr. for	16.05	97,96,426	5,797	3,635	0.04	. .		l	77,336		—73,701	28	37-28
1913-14 .	23.00	1,32,95,785	33,020	6,010					4,06,028		_4,12,074	28	118-33
1914-15	70.25	1,52,66,096	87,016	5,999	0.04			. .	4,09,710		4,93,720	24	93-10
1915-16 .	69.68	1,55,87,886	3,39,165	21,414	0.14]			5,35,702] .	-5,14,288	94	93-68
1016-17 .	60-68	1,53,51,017	3,38,109	55,277	0.36	33,054	89,331	. 0.58	5,09,935	 	-1,21,604	93	83-65
1917-18 .	60.68	1,54,33,725	4,39,885	22,049	0.15	43,689	66,638	0.43	5,33,345		-4,66,707	131	94.78
1918-19 .	60-68	1,66,82,276	4,80,827	27,707	0.18	48,921	76,628	0.49	5,35,161	1	-4,58,533	133	94.24
1919-20 .	60.68	1,69,49,146	5,29,401	-238		54,685	54,447	0.34	5,21,100		4,66,653	146	100-04
1920-21 .	86-48	1,64,23,082	6.13,337	1,12,328	0.68	63,312	1,75,640	1.07	5,51,114	1	-3,75,474	161	81-69
1921-22 1	86-48	1,67,53,693	6,87,930	58,888	0.35	69,785	1,28,673	0.77	5,82,755	٠٠.	-4,54,082	153	01-44
1922-23 .	86-48	1,68,15,278	7,47,365	81,727	0.50	80,685	1,74,412	1.04	5,89,006		-4,14,591	166	88.66
1923-24 .	86-48	1,70,58,735	7,65,340	1,69,113	0.93	04,335	2,53,448	1.49	6,00,695		-3,47,247	170	79-21
1924-25 .	86-48	1,70,90,585	7,37,476	64,815	0.28	85,149	1,49,994	0.88	6,05,942		-4,55,948	164	91.22
1925-26 .	86-45	1,71,32,210	8,00,882	1,78,220	1.04	95,569	2,73,780	1.60	6,10,090		3,36,301	178	77.75
1926-27 .	80.48	1,71,51,300	7,71,025	-1,49,265	0-87	89,118	60,147	-0.35	6,07,689		6,67,836	171	110.35
1927-28 .	80.48	1,72,39,895	9,25,138	2,52,075	1.46	1,08,575	3,60,650	2.00	6,09,690		-2,49,040	206	72.75

(g) Statistics of working of Mandalay-Mandaya Light Railway—

Note.—The figures from 1927-28 are included in table (a).

Year.	Milenge open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column. (3).	Interest.	Gain or loss to the State pertaining to the year.	Earnings per mile per week.	Proportion of expense to earnings.
1	2	3	4	5	6	7	8	9	10
								<u> </u>	
	Miles.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	
1913-141916	8.30	h						j	
1917. 1917-181919	16.00	Information not a	vailable.						
20. 1920-21	. 16.00	8,46,930	87,000	2,000	0.24			105	97.70
1921-22	. 16.00	8,73,000	85,000	20,000	2.29	••		102	76-47
1022-23	16.00	Information not a	vailable.						
1023-24	. 16.00	5,00,000	81,473	13,364	2.67	28,450	15,086	101	83-60
1924-25	. 16-00	5,00,000	78,650	-20,998		27,700	-48,698	95	126.70
1925-26	. 16.00	5,00,000	81,168	10,251	2.05	10,251	18,049	98	87.37
(a) 1926-27	. 16-00	5,00,000	53,796	-1,745	0.35	27,150	<u>28,895</u>	65	103 • 24
	_		1	i	ì	}	1	i	

(h) Statistics of working of Pegu-Kayan Railway-

Note.—The figures from 1928-29 are included in table (a).

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Porcentage of net earnings on total capital outlay given in column (3).	Interest.	Gain or loss to the State pertaining to the year.	Earnings por milo por week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8	9	10
									
, ,	Miles.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	ļ
1926-27 .	. 36-96	46,93,280	54,245	27,524	. 0.59	2,09,980	-1,82,456	28	49-26
1927-28	36.96	53,91,497	3,20,523	1,53,566	2.85	2,71,279	1,17,713	167	52.09

The lines owned by the late Eastern Bengal Guaranteed Railway Company were acquired by the State on the 1st July 1884, with which the Northern Bengal State and the Calcutta and South Eastern railways were amalgamated for working by the State as one undertaking under the name of the Eastern Bengal railway.

Date of registration of the late guaranteed company.-1857.

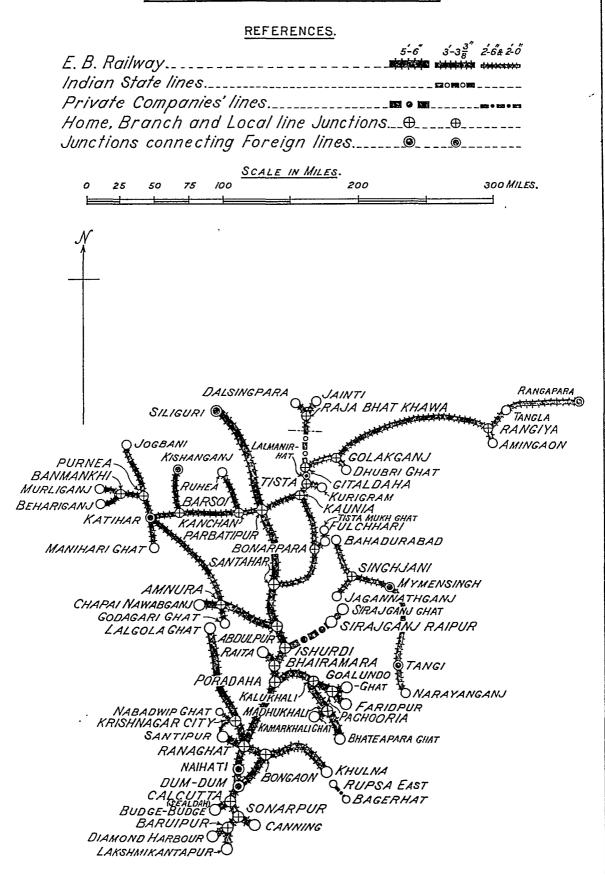
Lines comprised in the system.—The Eastern Bengal railway system is made up of-

								n lino. lles.		Inder const ion or sanc ed for co struction	tion- Total n- Miles
										Miles.	
(a) Eastern Bengal Railway (5' 6" gauge) .							8	46•31			846+31
(b) Sara-Sirajganj Railway (5' 6" gauge) .							Į.	54 • 22		••	54.22
(c) Eastern Bengal Railway (3' 32"gauge).					•		1,0	39.04		••	1,039 • 04
(d) Cooch Behar State Railway (3' 3%" gauge)							:	33.09		••	33.08
(e) Eastern Bengal Railway (2' 6" gauge).							:	17•14		••	17.14
(f) Khulna-Bagerhat Railway (2' 6" gauge)	•	٠	•	•			;	19•75		••	19.75
					Total		2,0	09.55		•••	2,009.55
Running powers—											
Foreign line over home line :-											
East Indian railway, Naihati to Chitpore	, Sea	ldah :	and M	ajher	at.	•					29-17
Assam-Bengal railway, Tangi to Narayan	ganj	·	•	•	•		•				23.25
								T	oțal		62-42
										-	

(a) Eastern Bengal railway (5' 6" gauge)-

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	Remares.
1	2	3	4	5	6
ASTERN SECTION-	1	1			
Main line—	20.00	45.50			
Calcutta to Ranaghat	29-9-62	45.78			•
Kanaghat to Poradaha Junction Poradaha Junction to Bhairamara	15-11-62	57·12 11·73		1	
Bhairamara to Shakhole (3 miles south of	19-1-78	14.41			
Gopalpur).	1-1-15	14.41			*These lengt
Shakhole (3 miles south of Gopalpur) to San- tahar.	1-11-14	*44.84			were origina on the 3' 2
Santahar to Parbatipur	1.7.24	*59.75		}	gauge, lut we
Parbatipur to Siliguri	30-9-26	*84.94		!	converted
Calcutta Chord Railway (over the E. B.	1-2-32	†1·43		1	5' 6" gauge a:
Rly.).		' {		1	opened on t
Branches-		Į.		Į	dates shown.
		[320.00		
Kakurgachi chord—					Į.
Kakurgachi Road to Junction with High level goods line.		1.48			
High level goods line to Docks	14-6-19	5.45	6.93		-
Race course line at Barrackpore	27-1-28	1.54	1.54	ì	1
) i		1.04	1	1
Dum Dum-Chitpore low level connection— .	20-10-14	†2·07			
Duni Duni Ompore tou teoer connection—	20-10-14	12 01		1	tFor goods tra
	1		2.07		only.
Murshidabad hranch—	1				Jan.
Ranaghat to Bhagwangola	1-9-05	89.60			1
Bhagwangola to Krishnapur	10-11-05	5.90		}	1
Krishnapur to Lalgola Ghat	15-7-07	0.92		}	1
•	10		96.42	1	**For stone tra
Nashipur Road to Azimganj	31-1-28	**2.01	1	1	only.
			2.01	}	
Goalundo extension—				1	\
Poradaha Junction to Jagati	15-11-62	4.84	ŀ	1	{
Jagati to Kushtia	16-2-64	3.77	}	Ţ.	1
Kushtia to mile 145.74	(1-1-71	32.76	}	1	{
Kushua to mae 140.44	1-8-81	1·33 0·73	[}	1
Mile 145.74 to Pachooria Junction	20-6-11	4.57	e.	1	1
Pachooria Junction to Goalundo	26-10-98	5.43	e.	1	(
	20-10-98	0 43	53.43	. [1
	1	(1 00.40	\	_\
		[l		1
Total, Eastern section, carried over .		1		482 • 40	1
	1 •-	1	1 ''		1

E.B. RAILWAY SYSTEM.



a) Eastern Bengal railway (5' 6" gauge)—contd.

Progress in opening-contd.

Sections of railway.	Date of opening.	Miles	Total	Grand total.	Remares.
1	2	3	4	5	6
Brought forward, Eastern section .			••	482-40	
Eastern section—concld.					
Faridpur branch—					
Pachooria Junction to Shivarampore Shivarampore to Ambikapur	20-10-98 9-4-99 21-10-35	8·77 5·19 1·54			
Fakirabad Ghat line	5-7-12	1.80	15·50 1·80		
Raila branch— Bhairamara to Raita	1-12-16	8.76	1 30		
Churni Bridge to Santipur	31-5-25	10.01	8.76		
Abdulpur-Nawabgan; Branch— Abdulpur-Rajshahi	14-3-29 15-1-30	25·56 31·59	10.01		
Kalukhali-Bhatiapara Branch— Kalukhali to Madhukhali	1-1-32 1-3-32	26·28 27·21	57-15		
Total, Eastern Section .		••	53.49	629-11	
Southern section-					
Main line—					
Calcutta (Beliaghata) to Sonarpur Sonarpur to Baruipur Baruipur to Magra Hat Magra Hat to Diamond Harbour	2-1-62 10-6-82 18-12-82 25-4-83	10.00 5.30 9.55 12.13	no.00		
Branche			36.98		
Canning branch—					
Sonarpur to Champahati	2-1-62 15-5-63 17-11-02	5·00 12·16 0·81	17.97		
Bulge-Budge branch— Ballygunge to Budge-Budge Lal shmil antapur Branch— Baruipur to Lakshmikantapur	1-5-90 15-12-28	13.38	13·38 23·26	91.59	
Total, Southern section	••	••	••		†This was origin
Central section +-			İ		ally the pro-
Main liw—					Bengal Centra Railway Com
Dum Dum Junction to Dattapukur Dattapukur to Gobardanga Gobardanga to Bongaon Bongaon to Khulna	2-4-83 7-12-83 22-4-84 16-2-84	14·25 17·00 12·00 61·22	104-47		pany. It was purchased by the State and merged in the Eastern Benga
Branches—					railway with
Ranaghat to Bongaon	16-10-82	21.14	21.14		1st July 1905. 1For goods traffic
Total, Central section			••	125.61	only.
TOTAL, OPEN MILEAGE			••	846.31	
Quadruple Lines-					•
On the main line of Eastern section—					
Sealdah to Kakurgachi Kakurgachi to Dum Dum Dum to Barrackpore Barrackpore to Naihati	18-2-16 1-2-07 12-12-12 21-11-12	0·79 3·13 10·30 8·38			
Total carried over .				22.60	

a) Eastern Bengal railway (5' 6" gauge)-contd.

Progress in opening-concld.

Sections of railway.	Date of opening.	Milea.	Total.	Grand total.	Remarks.
1	2	3	4	5	6
· Brought forward			••	22.60	
Double Line— On the main line of Eastern section— Nathati to Kanchrapara . Kanchrapara to Ranaghat Ranaghat to Aranghata . Araughata to Bogoola Bogoola to Majdia Majdia to Dursuna . Dursuna to Poradaha Poradaha to Bhairamara . Bhairamara to Ishurdi Junction Ishurdi Junction to Abdulpur Calcutta Chord railway(over the E. B. Rly. On the branches of Eastern section— Kakurgachi chord—	7-8-97 17-9-97 17-11-98 29-11-00 17-9-97 27-11-00 17-10-13 25-1-16 25-1-16 1-3-33	17.56 5.50 0.75 6.05 0.75 0.15 0.24 6.73 5.00 10.52 10.89	113-83		
Kakurgachi to Gobra High level goods line to Docks Dum Dum-Chitpore low level connection, a	1-2-07 14-6-19 10-12-13	4.53	6.17		
portion. Goalundo extension— Poradaha Junction to Jagati On the main line of Southern section— Sealdah to Ballygunge Ballygunge to Jadabpur Jadabpur to Barnipur	2-3-16 20-10-85 10-10-15 10-10-12 23-11-16	3 · 50 0 · 36 1 · 35	1*69 4*84		
On the branches of Southern section— Budge-Budge branch— Ballygunge to Majherat	20-11-93	4.00	15.60		
Total double line			••	146-13	

Details of construction-

The permanent way consists of 90 lbs. flat-footed steel rails (B. S. and B. S. R. Sections) laid on wooden, steel, cast iron or cement concrete sleepers with the following exceptions:—

- (i) 115 lbs. flat-footed steel rails laid on wooden sleepers on up and down Quadruple line (from mile 1·25 to 4·60) and C. C. Railway line near Dum Dum junction between miles 1/7 and 4/10, on the Eastern Bengal Railway up and down main lines from mile 0·50 to mile 5·25, up and down tracks from Kakurgachi to mile 5 B.
- (ii) 75 lbs. flat-footed steel rails laid on wooden concrete N. C. I. sleepers:-
 - (a) On the Murshidabad Branch between Muragacha and Lalgola Ghat.
 - (b) Abdulpur-Nawabgani Branch.
 - (c) Kalukhali-Bhatiapara Branch.
- (iii) (a) 75 lbs. and 73 lbs. double steel headed rails laid on D. and O. plates and wooden sleepers on the Raita Branch from Bhairamara to Raita.
 - (b) The line from sub-way at Canal Junction Cabin to Chitpore, is laid partly with 75-lb. double headed and partly with 75-lb. flat-footed rails. A few short lengths near ghat stations at Goalundo are still laid with old iron permanent-way.
 - (c) All flat-footed rails, as a rule, are laid on wooden sleepers, excepting for a few short lengths between Naihati and Poradaha, where cast iron sleepers have been used under 90-lb. rails.

(a) Eastern Bengal railway (5' 6" gauge)—concld

Details of construction-concld.

- (d) The 73-lb. and 75-lb. double-headed rails are laid on Denham and Olphert's cast iron or on wooden sleepers with cast iron chair and wooden keys.
- Ballast—The whole of the line except Faridpur, Abdulpur-Nawabganj and Kalukhali-Bhatiapara Branches including Madhukhali Kamarhhali Sections is ballasted with brick stone and shingle.
- Fencing.—The whole of the Eastern section is fenced, except between Pachooria Junction and Goalundo and the Faridpur branch. The Southern section is fenced except the Canning branch 5 miles of which between Ghutiyari Sharif and Taldi have been done. The Central section is fenced throughout.

Curves.—The sharpest curve is of 955 feet radius.

Gradients.—The ruling gradient is 1 in 300; except between miles 160 and 164 on the Faridpur branch where it is 1 in 100. There is also a short length of 1 in 200 grade on Raita and Baruipur Lakshmi-kantapur Branches and on the low level approaches to Chitpore from Dum Dum junction.

Contracts-

Nil.—The line is owned and worked by the State.

Rates and fares.—Certain maxima and mimima have been fixed by the Government, between the limit of which the Railway Administration can vary the rates and fares for goods and coaching traffic.

Statistics of working. (Those for the periods prior to 1888 will be found in Appendix 38 to the Raliway Administration Report for 1907.)

NOTE.—The amount of sterling liabilities involved in the purchase of railways, included in the figures shown in column 3 below against 1033-34 and 1034-35, has been converted at the rates of exchange ruling at the time when the liabilities came into being, as against the statutory rate of exchange i.e. 1s 6d previously adopted. From the year 1035-30 onwards the same amount has been reconverted at the latter rate.

			Inci udes th	E EASTERN BE	NGAL RAILY	AYA 3,34. V	ND 2' 6" GAUG	E SECTIONS.			
Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross carnings.	Net earnings.	Percentage of net earnings on total capital outlay, or capital at charge, given in column (3). 6	Pay- ment on account of rebate to branch lines.	Interest.•	Annuity and Slaking Fund.	Gain or loss to the State pertaining to each year.	Eirn- ings per mile per week.	Proportion of expenses to earnings.
											
1888 1890 1890 1891 1892 1893 1895 1896 1895 1896 18	Miles. 673-21 746-40 763-90 776-57 812-35 812-71 812-96 813-65 814-30 817-88 827-37 832-86 843-04 854-30 898-18 897-87 71-31 1,234-98 1,271-29 1,273-61 1,274-61 1,503-00 1,507-73 1,509-62 1,569-83	Rs. 9.30,48,486 9,73,10,143 10,04,93,100 10,10,64,737 10,48,66,143 10,66,47,715 10,61,71,16,616 11,02,05,09 11,51,03,689 11,82,79,103 12,20,74,261 12,02,77,100 13,24,19,703 14,04,06,863 15,21,86,102 20,23,66,593 21,54,21,54,21,54,21,54,22,22,27,27,6,995 24,27,44,601 25,55,91,026 22,71,15,1004 29,00,69,252	Rs. 1,05,19,210 1,11,76,674 1,14,78,382 1,20,75,440 1,15,56,446 1,20,51,147 1,40,15,723 1,45,09,739 1,45,09,739 1,47,62,32 1,47,17,870 1,50,12,436 1,71,00,400 1,78,03,098 1,81,62,429 1,94,63,098 2,03,73,194 2,46,31,681 2,65,68,509 2,73,16,420 2,77,24,064 2,83,74,502 2,83,74,502 3,15,19,533 3,03,63,589	Rs. 55,25,424 61,01,625 65,23,100 62,23,727 66,95,138 83,55,550 80,74,57 40,02,286 80,06,293 83,35,064 83,01,093 92,44,424 83,02,372 96,10,904 88,23,372 96,10,904 1,06,08,061 1,03,15,781 81,09,105 67,10,606 1,14,08,257 1,17,55,233 1,39,40,687	5.90 6.36 6.40 5.94 6.28 7.87 8.34 8.17 7.05 6.27 6.62 5.82 5.04 4.70 3.50 4.70 4.63 4.81	Rs	Rs. 28, 83, 744 20, 18, 703 30, 96, 150 32, 01, 160 33, 63, 707 33, 88, 241 34, 72, 411 35, 12, 105 25, 15, 397 37, 20, 343 36, 62, 725 39, 70, 133 34, 42, 033 44, 82, 033 44, 82, 034 66, 94, 92, 96, 23, 94, 610 75, 44, 55, 321 75, 44, 53, 44, 53, 321 75, 44, 53, 44, 53, 44, 54, 54, 54, 54, 54, 54, 54, 54, 54	Rs. 20,11,011 20,43,053 18,14,110 11,48,198 21,86,3996 22,14,254 25,21,063 25,10,875 23,46,896 22,13,438 21,01,051 20,83,534 20,87,434	Rs, +6,30,669 +11,23,060 +11,62,063 +13,62,736 +6,93,624 +23,60,085 +29,61,494 +31,40,001 +21,33,212 +22,38,410 +21,71,50 +12,38,410 +17,56,329 +17,56,329 +17,56,329 +17,56,329 +17,56,329 +17,56,329 +17,56,329 +17,56,329 +17,56,329 +17,56,329 +17,56,329 +17,56,329 +17,57,291 +18,37,37 -9,18,421 +3,07,291 +29,76,272 +17,19,298 +34,53,184	1	47·47 44·60 47·42 48·47 40·06 44·06 44·06 44·06 40·40 38·16 40·31 45·35 43·37 40·83 49·85 48·87 51·20 52·76 60·97 58·79 58·79 58·79 59·40
1013. 1013-14 1013-14 1015-16 1015-16 1016-17 1017-18 1018-19 1018-19 1019-20 1021-22 1022-23 1023-24 1024-25 1025-26 1126-27 1126-27 1127-28 1128-29 1128-29 1128-30 1128-31 1128-	1,571.68 1,581.43 1,639.05 1,638.91 1,027.88 1,582.08 1,581.17 1,632.70 1,631.77 1,621.74 1,620.70 1,010.86 1,616.07 1,016.07 1,016.07 1,016.07 1,743.22 1,743.22 1,743.22 1,743.23 1,844.08 1,805.15 1,805.15 1,902.49	27,69,63,503 32,60,89,602 35,01,65,002 35,08,80,430 36,29,18,133 36,50,74,519 36,70,93,248 38,05,62,605 40,11,63,000 111,28,87,388 11,97,0,539 141,71,15,167 142,15,73,127 144,88,16,877 145,66,33,155 148,57,28,862 160,82,12,468 51,81,71,174 50,98,87,193 51,193,71,174 50,98,87,037 51,10,005,558 51,58,703,75 51,50,89,399 51,48,00,034	80,52,207 3,75,42,005 3,42,46,23,835 3,69,99,330 3,47,38,908 4,47,48,508 4,67,60,315 4,37,78,745 5,21,52,81 5,21,52,81 5,21,52,81 5,21,52,81 6,22,07,915 6,22,07,915 6,21,73,614 7,11,62,658 6,74,20,900 6,74,21,900 6,74,21,900 6,74,21,900 6,74,21,6	34,79,977 1,00,52,046 1,14,97,734 1,37,73,460 1,63,75,235 1,40,36,533 1,43,63,639 1,62,20,318 1,43,63,639 1,43,63,639 1,73,45,	1.26 5.09 3.28 3.83 4.68 4.08 4.42 3.77 4.11 1.48 3.31 4.13 3.97 5.44 4.23 2.26 1.49 1.49 1.55 2.99	97,751 2 96,034 2,96,258 1,91,187 42,585 02,503 85,624 27,631 1,258 -18,045 8,-164 17,412 -4,102 -74,217 52,301 2,01,870 3,21,137 2,07,660 1,90,7660	21,70,558 1,04,87,600 1,12,22,489 1,17,12,770 1,15,44,512 1,22,00,902 1,25,97,518 1,26,88,894 1,35,573,716 1,38,51,150 1,48,88,810 1,59,00,150 1,66,07,281 1,59,00,150 1,61,52,403 1,68,45,617 1,79,08,301 1,88,83,587 1,99,84,814 2,03,83,757 2,03,76,00 2,01,76,02 2,01,76,02 1,07,76,84,814 1,06,91,91,91 1,01,91,91,91 1,01,91,91,91 1,01,91,91,91 1,01,91,91 1,01,91,91 1,01,91,91 1,01,91,91 1,01,91,91 1,01,91,91 1,01,91,91 1,01,91 1,	25,21,859 20,87,434 20,87,434 19,69,750 19,75,155 19,15,155 10,23,705 11,105,008 10,18,922 20,32,735 10,37,594	+7,87,560 +40,76,943 -41,51,21,88 -24,753 +32,64,222 +1,51,106 +17,17,903 -3,48,893 -91,45,214 -78,90,938 -18,84,796 +10,12,749 +17,71,466 +76,78,348 +46,67,623 +18,74,243 -85,53,005 -1,24,70,749 -1,27,21,634 +1,20,27,67 -1,27,21,634 +1,21,20,310,457 -1,22,02,310 -76,53,932	438 4601 409 437 405 4703 551 617 618 638 717 750 814 814 736 620 524 501 551 552 553 551	01-13 55-04 55-04 05-42 00-44 51-38 57-87 58-00 67-68 64-50 67-32 72-32 72-32 73-17 65-78 65-78 69-61 80-62 84-50 69-61 80-62 84-58 84-58 84-58 84-58 84-58 84-58

[†]Excluding Rs. 33,507, representing payment made to the Brahmaputra-Sultanpur Branch Railway Company up to 1st April 1904 on account of surplus profits and other adjustments.

[‡] Including premia paid by Government in the purchase of the line.

If The Capital account was permanently debited with the balance of Capital Hability outstanding on 31st March 1924 in respect of the purchase of the railway under redemption by annuities and sinking fund on which full interest is charged in column 8.

⁽a) Working expenses for this purpose include rebate paid to worked lines.

(b) Sara-Sirajganj railway (5' 6" gauge)-

Managing Agents.—Messes. Gillanders Arbuthnot and Co., Calgutta. Date of registration of the Company.—1913.

The construction of this line by the Eastern Bengal Railway on behalf of the Sara-Sirajganj Railway Company was sanctioned in Railway Board's Notification No. 277, dated the 10th October 1913. The line takes off at Ishurdi in an easterly direction and terminates at Sirajganj on the banks of the Jamuna which is the local name for the Brahmaputra river.

Progress in opening-

	Se	etion	of ra	ilway.						Date of opening.	Milos.	Total.
			1							2	3	4
Ishurdi to Bhangoora .							•	•	•	1-7-15	21.25	
Bhangoora to Sirajganj Ghat	•	•	•	•	. '	٠		•	{	25-7-16 10-11-34	28·41 4·56	
							Тотаг				••	54 • 22

Details of construction-

Permanent-way.—The permanent-way consists of 90-th. flat-footed steel rails laid on wooden sleepers on the main line and passenger sidings. The permanent-way on the Sirajganj Ghat line consists of 90 lbs. F.F. and 75-th. double-headed rails. Flat-footed rails are laid mostly on wooden sleepers.

Ballast.—The ballast consists of sandy earth just sufficient to pack the line for running.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 1,146 feet radius.

Gradients.—The ruling gradient is 1 in 300, except at bridge approaches where the gradients are 1 in 100.

Contract --

Dated the 14th April 1916, between the Secretary of State for India and the Sara-Sirajganj Railway Company, as to the construction, maintenance and working of the Sara-Sirajganj railway by the agency of the Eastern Bengal railway.

Main provisions of contract -

- (i) Land.—Land in British territory provided by Government free of cost.
- (ii) Government-aid.—For the more convenient and economical construction of the railway, its execution was undertaken by the Government, who also stock, manage, maintain and work it through the agency of the Eastern Bengal railway. The Government agree to allow to the Company in respect of each year, by way of rebate, such a sum, not exceeding in any year the net earnings from traffic (except stores for maintenance or working) interchanged between the Eastern Bengal railway and the Company's railway, as shall, together with the net earnings of the Company for the said year, make up an amount equal to interest for such year at a rate of 5 per cent. per annum on the share capital of the Company for the time being paid up and shall also allow Rs. 15,000 per annum and such other actual expenses as may be incurred by the Company for or towards office expenses and expenses of management and direction of the Company and also such legal expenses as shall have been approved by the Secretary of State or the Government of India.
- (iii) Terms of working.—For management, maintenance, working and the use of rolling-stock, the Eastern Bengal railway shall retain, each year, a percentage of the gross earnings of the Sara-Sirajganj railway, which shall bear the same proportion to the gross earnings of the said railway, as the working expenses of the Eastern Bengal railway, including the said railway, bear to the gross earnings of the Eastern Bengal railway, including the said railway, up to a maximum of 50 per cent.
- (iv) Distribution of profits.—If the net earnings exceed 5 per cent. on the paid up share capital of the Company, the office expenses and expenses of management and direction of the Company, as at (ii) above, shall be a first charge on the surplus profits and the balance of the profits shall be divided equally between the Secretary of State and the Company. If the surplus profits are insufficient to meet the administrative charges in full the balance will be paid to the Company by the working

(b) Sara-Sirajganj railway (5' 6" gauge)—concld.

Main provisions of contract-concld.

agency out of the stipulated percentage of the earnings retained by the working agency as working expenses.

- (v) Rates and fares.—Same as on the Eastern Bengal railway.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—

 None specified.

 (b) Government bullion and coin and the persons in charge thereof.—
- (vii) Power of the Government to determine contract.—The Government may determine the contract, by giving 12 months' 'notice of purchase,' either on the 30th September 1946, or on the 31st day of March in the last year of any subsequent period of ten years, in which case the Government undertake to pay to the Company, within 4 months from the date of the determination of the contract, a sum equal to 25 times the amount of the average yearly net earnings of the Company's line (excluding payments on account of rebate) derived during the three years preceding the time at which the contract is determined, provided that the total amount so payable to the Company does not exceed by more than 20 per cent. the total capital expenditure of the Company or is less than such capital expenditure.

The contract may also be determined by giving to the Company 12 months' "notice of special purchase" in the following cases:—

- (a) When the Secretary of State considers it desirable that the gauge of the said railway should be altered.
- (b) When it is desired to convert the said railway into a line of through communication.
- (c) When the Secretary of State desires to extend the said railway and the Company does not, within six months from date of formal requisition from the Secretary of State, raise such additional capital as is necessary for this purpose.

If the contract be determined by "notice of special purchase," the Government undertakes to pay to the Company 25 times the average net earnings of the Company's line (excluding payments on account of rebate) derived by the Company during the three years preceding the time at which the contract is determined or 115 per cent. of the total capital expenditure of the Company whichever may be the greater.

- (viii) Power of the Company to surrender contract.—Nil.
- (ix) Term of contract if not determined under (vii).—None specified.

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Net carnings.	Percentage of net earnings on total capital outlay given in column (3).	Rebate from, or share of surplus profits to, the Eastern Bengal Rail- way.	Total income.	Percentage of total income on total capital outlay given in column (3)	Earn ings per mile per week.	Proportion of expenses to earn-in 's,
1	2	3	4	5	6	7	8	9	10	11
1916-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1922-23 1922-26 1926-27 1927-28 1928-29 1928-30 1930-31 1931-32 1932-33 1933-34 1934-35 1935-36	Miles. 22:37 52:93 53:12 52:99 53:04 53:04 53:04 52:98 52:96 52:96 52:96 52:96 51:08 51:08 49:66 49:66 49:66 54:42 54:22	Rs. 76,48,161 86,70,057 86,48,504 86,67,009 87,13,040 87,45,058 87,51,371 87,59,991 88,71,821 89,40,302 89,51,624 90,51,869 92,39,663 93,35,635 93,40,119 94,21,463 75,37,856 95,84,861 95,88,714 98,11,836 98,11,238 97,09,816	Rs. 1,31,780 2,68,182 4,27,812 8,50,567 9,08,704 8,225,614 9,20,226 10,78,706 11,74,091 11,59,808 11,31,178 10,26,542 9,01,546 7,26,582 6,86,010 6,46,962 7,08,435 8,82,248	Rs	0.76 1.55 2.40 4.88 5.20 4.72 5.25 6.00 6.57 6.48 6.92 6.28 6.06 5.50 4.78 3.80 3.63 3.63 3.63	Rs. +1,00,401 +1,97,138 +2,24,506 + 11,113 -2,107 -2,107 -14,019 -40,911 -40,662 -61,514 -24,489 -14,723 +4,527 +47,735 +83,672 +1,83,921 +1,15,251 +80,938	Rs 1,66,291 3,31,229 4,32,946 4,36,397 4,54,352 4,35,659 4,85,828 5,30,645 5,73,027 5,39,048 5,85,645 5,18,390 5,41,100 4,98,548 4,55,300 4,11,026 4,27,127 4,76,971 5,22,072 5,14,468 5,22,062	1 92 3 83 5 00 5 00 5 00 5 55 5 98 6 41 6 02 6 47 5 61 5 80 4 31 4 45 4 97 5 32 5 24 5 23	Rs 96 97 155 308 329 299 334 421 455 437 426 228 228 281 212	50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00 50.00

^{*}Credited to capital.

(c) Eastern Bengal railway (3' 33" gauge)-

Progress in opening-

: :

Sections of railway.		Date of	Miles.	Total.	Grand total.	REMARKS
1		opening.	3	4	5	6
ain line—		(15-10-20	0.17			*The line
Manihari to Katihar	. -	4-12-21	0.29		}	tween Tec
Junction with the Bengal and North-Western rail		1-4-87	13.04			Junction (
way at Katihar.	•	8-3-01	0.69		l	Mogalhat
Katihar to Raygani	.	1-7-89	37.49			original opened on
Rayganj to Dinagepore	.	15-2-88	32.68			6th Febru
Dinagepore to Chirir Bandar	. [16-5-84	8.75			1882 on
Chirir Bandar to Parbatipur Junction Parbatipur Junction to Shampur	: [1-7-83 19-5-78	9·89 15·77		1	2' 6" gauge
Shampur to Rungpore		2-7-78	7.50		l	a part the Kau
Rungpore to Kaunia	.	1-6-79	10.20			Dharl
Kauma to Mogalhat (including Teesta Bridge)* Mogalhat to Gitaldaha Junction	•]	1-4-01	16.14		}	branch wi
Gitaldaha to Golakganj	•	2-1-02 23-9-02	1 · 86 24 · 33		į	was constr ted by
Golakganj to Kokrajhar		1-2-06	35.75			Governme
Kokrajhar to Sorbhog	- 1	1-3-09	39.73		ì	of Bengal
Sorbhog to Amingaon (on the right bank of the	- }	1-4-09	67.21		1	of Provin
Brahmaputra), Santahar-Kaunia loop—	İ	l	į	321-49		revenue.
Santahar to Bogra	. 1	1-4-99	23 · 13	321 40	1	† The Sai
Bogra to Mohimaganj		5.4.00	21.17		1	para sec
Mohimaganj to Bonarpara	•	1-8-00	4.60		1	of this lo
Bonarpara to Kaunia	• {	1-7-05	44.77	04.0-	1	togeth
Pacca section—	- 1			94.07	1	with Rongen
Narayanganj to Dacca	.	4-1-85	9.31			Bonarp Fulchari
Dacca to Jaydebpur	•	1-8-85	20.10		1	tion of
Jaydebpur to Gafargaon	•	1-8-85	32.50			Singhi
Galaryaon to alymensingin	•	1-8-85	23.52	85.43		branch,
ainti Branch, British Section‡-	- 1			00.40	1	origin a
South bank of Kaljani river to Alipur Duar .	.]	18-1-00	0.64		ł	of the Br
Alipur Duar to Raja Bhat Khawa	.	5-4-00	9.97		l	maput
Raja Bhat Khawa to Jainti	• [1-2-01	9.18	19.79	Į.	Sultan
Teesta Junction to Kurigram	.	£ 2-7-28	13.30	10-70		Branch R way Co
ranches and extensions on the Main line-		15-11-29	1.48			pany. It
Kosi branch—	- 1	`		14.78	1	acquired
Katihar to Kasba Kasba to Forbesgani	•]	1.4.87	21.75		1	the State
Forbesganj to Jogbani	: 1	1-7-89 15-2-09	36 · 84 8 · 73			amalgama
	- 1	10-2-03	0.19	67.32	1	with the H tern Ben
Godagari extension—	- 1					railway
Katihar to Godagari	.	1-1-09	105:34		1	the 1st A
Kissengunge branch-	- 1	₹ 5-11-31	3.98	109.32	1	1904. ‡This
Barsoi to Kissengunge	.]	15-12-92	35.11		1	was origi
Murliganj branch—	- 1			35.11		ly on
Purnea to Murliganj	١٠	20-3-29	34.85	21.05	1	2 6 gau
Banmankhi to Behariganj	.	1-8-29	17.13	34.85	1	but was c
Dinaipur-Ruhea branch-	- 1	ļ	1. 10	17-13	1	and ope
Dinajpur (Kanchan Jn.) to Pirganj	.	25-2-28	24.05	,] ,	on, the 3'
Pirganj to Ruhea	•	8-5-28	23.75	#F -00	1	gauge up
Dhubri branch—	1		-	47.80	ļ	Raja B
Golakganj to Dhubri	•	23-9-02	13.73			Khawa fi 13th A
Tangla extension—	ļ			13.73	\	1910 and
Rangiya to Tangla	•	1-3-12	23.98		1	to Ja
Tangla to Majbat		1.12.32	27.27	23.98		from
Majbat to Rangapara North	: 1	7-2-33	25-23	_		May 1910. This line
ranch on the Santahar-Kaunia loop—				E0. F0	}	the prope
Fulchhari branch—	, 1	(1-9-00	8 · 25	52.50	1	of the Ind
Bonarpara to Fulchhari (on the right bank of t Brahmaputra).	пе	18-8-12	1.00			Gener
aritima privite).	}	}				Navigation
Branch on the Dacca section-		i		9.25	ļ	and Railw. Compan
§Jagunnathgan; branch—			. 1			It was p
Mymensingh to Singhjani Singhjani to Jagannathganj		15-10-98	33.35			chased
omeniant to outanneentant	.	22-10-99	16.88	50.23		the State
nghjani branch—	j	ĺ		00.23		incorporate with
Bahadurabad (on the left bank of the Brahmaput	ra)	18-8-12	24.74			Easter
to Singhjani.		1				Bengal ra
Branch on the Jaints branch— Dalsingpara branch—	- 1	ŀ		24.74		way w
Raja Bhat Khawa to Kalchini		1-4-12	7.34			effect fr
Kalchini to Hasmara	: 1	1-4-12	6.66	!		the 1st Jan ary 1920.
Hasmara to Dalsingpara		5-1-14	3.52			**This
		[-		17.52		was origina
TOTAL OPEN MILEAGE		İ	-			on the 2'
. A STATE OF THE WILLIAM I		••		••	1,039.04	gauge but v
•	ł	ţ	į		[converted to 3'3\" gar
Double line—	_					
Tees Junction to Lalmonirhat	- 1	1-9-14	7.29			and oper

(c) Eastern Bengal railway (3' 33" gauge)-concld.

Details of construction-

Permanent-way.—The permanent-way consists of 50-lbs. N. S., and B. S., and 60 lbs. B. S. and B. S. R., flat-footed steel rails and wooden sleepers with the following exceptions :-

- (a) 57.25 miles of Dacca Section are laid with second-hand 62 lbs. flat-footed, 4.5 miles with secondhand 75 lbs. B. S. F. F., 9.00 miles with 80 lbs. F. F. 9.75 miles with second hand 75 lbs. N. S. F. F. rails on wooden sleepers.
- (b) 15.25 miles of Teesta Kurigram Branch are laid with second-hand 411-lbs. flat-footed steel rails on wooden sleepers.
- (c) 57.00 miles of Golakganj Amingaon section is laid with 80 lbs. F. F. rails.

Ballast.—The whole of the line, except the Rangiya Tangla, Raja Bhat Khawa, Dalsingpara Dinagepur-Ruhea Teesta Kurigram Branches and the Purnea Murliganj railway including Beharigunge Branch is ballasted with brick, stone or shingle ballast.

Fencing.—The whole of the 3' 3g" gauge line is fenced, except the sections Golakganj to Dhubri, Rangiya to Tangla, Raja Bhat Khawa to Dalsingpara, Dacca to Mymensingh, Golakganj to Amingaon, Singhjani to Fulchhari, Jainti branch, British section and Dinajpur-Ruhea branch. On the unfenced sections the station yards are usually fenced. On the Jagannathganj branch the line is fenced at stations and through the town of Mymensingh.

Curves .- The sharpest curve is of 500 feet radius.

Gradients.—The ruling gradient on the 3' 38" gauge section is 1 in 200 which occurs at the approaches of large bridges and fairly frequent. On the Jainti branch, British section and on the section from Raja Bhat Khawa to Kalchini the ruling gradients on the last few miles near the hills are 1 in 100, and 1 in 150, respectively, but there is a small length of 1 in 50 between Buxa Road and Jainti. On the Jagannathgani branch the ruling gradient is 1 in 300. On the main line of the Dacca section there are also 1 in 150 and 1 in 170 at the approaches of the bridges. The ruling gradient on the Teesta Kurigram branch is 1 in 200.

Contracts-

Nil.—The line is owned and worked by the State.

Statistics of working-

Included with the Eastern Bengal Railway (5' 6" gauge).

(d) Cooch Behar State railway (3' 3\rac{3}{2}" gauge)-

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.	Remarus. 5		
1	2	3	4			
Gitaldaha to Manshahi River	15-9-93 15-12-98 16-5-00	18·31 3·22 0·11		This line was originally on the 2'6' gauge, but was converted to, and opened on, the 3'3\delta' gauge up to Cooch Behar from 14th February		
Cooch Behar to temporary Alipur Duar (Kholta) .	15-4-99	10.96		1910 and up to the end of the Cooch Behar State section from		
Temporary Alipur Duar (Kholta) to the South Bank of the Kaljani river.	18-1-00	0.49		13th April 1910.		
Total .		••	33.00			

Details of construction-

Permanent-way.—The permanent-way consists of second-hand 50-lb. flat-footed steel rails, laid on wooden sleepers.

Ballast.—The line is ballasted with shingle.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 1,432 feet radius.

Gradients.—The ruling gradient is 1 in 100.

Agreement-

Dated the 25th February 1907, having effect from the 1st January 1907, between the Secretary of State and His Highness the Maharaja of Cooch Behar, as to the management, maintenance and working of the Cooch Behar State railway by the Eastern Bengal railway.

Main provisions of agreement-

- Land.—
 Government aid.—

 The railway is the property of the Cooch Behar Durbar, which provides all funds not contemplated in clause 2 of the account. Land.completion and equipment of the line from time to time, and is managed, maintained and worked by the agency of the Eastern Bengal railway.
- (iv) Distribution of profits.—

 For management, maintenance and working, the Eastern Bengal railway retains 40 per cent. of the gross corning. (iii) Terms of working. stock of the Eastern Bengal railway is used for the conveyance of any traffic on the Cooch Behar

(d) Cooch Behar State railway (3' 33" gauge)-concld.

Main provisions of agreement-concld.

State railway, the Eastern Bengal railway retains up to, but not exceeding, 45 per cent. of the gross earnings obtained from the use of such stock. The remainder, being the net earnings of the Branch, is paid over to the Durbar.

- (v) Rates and fares.—The Administration of the Eastern Bengal railway has full control over the rates and fares on the Cooch Behar State railway, subject to the maxima and minima prescribed by the Government of India in schedule A appended to the agreement (certain station to station rates applicable after the opening of the Dharlla bridge are prescribed in schedule B to the agreement).
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores. Mails are conveyed in accordance with rules in force on State railways. There is no special provision in the agreement for the carriage of troops, high Government officials and Government stores.
 - (b) Government bullion and coin, and the persons in charge thereof.—Not specified.
- (vii) Power of the Government to determine agreement.— (viii) Power of the Cooch Behar Durbar to determine agreement.— } Terminable on the expiry of six months' notice from either side.
- (ix) Term of agreement.—Until determined under (vii) and (viii).

Statistics of working (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14).—

Усат.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.	Remarks.
ı	2	3	4	5	6	7	8	9
1913-14 1914-15 1015-16 1910-17 1917-18 1018-19 1010-20 1020-21 1021-22 1022-23 1023-24 1024-25 1025-26 1026-27 1027-28 1028-20 1029-30 1030-31 1031-32 1033-31 1033-35	Miles. 33-09	Rs. 20,22,701 20,50,061 19,59,396 19,61,595 19,76,686 19,75,838 19,76,686 19,83,561 20,28,744 20,62,167 20,58,974 20,83,773 21,03,805 21,22,003 21,40,032 21,68,039 21,73,765 21,75,007 21,75,007 21,75,007 21,75,007 21,75,007 21,74,092 21,74,131	Rs. 3,00,374 2,60,264 2,63,494 2,86,152 2,69,878 3,20,525 3,80,187 3,19,424 3,06,142 4,29,833 4,63,076 4,87,496 5,20,456 5,63,677 4,77,986 3,76,828 3,08,074 4,77,986 3,76,828 3,08,074 3,50,336 3,49,419 3,52,833 3,82,641	Rs 1,63,808 1,41,749 1,40,785 1,55,257 0,30,817 1,72,030 2,06,041 1,72,022 1,65,316 1,04,582 1,97,093 2,31,919 2,50,203 2,63,634 2,81,028 3,05,103 2,58,055 2,02,418 1,64,604 1,92,685 1,87,344 (a)1,89,221 (a)2,05,615 (a)2,05,615 (a)2,05,968	8-05 6-91 7-18 7-91 7-07 8-71 10-42 8-70 8-15 9-44 9-57 11-13 11-89 12-42 13-09 14-07 11-87 9-30 7-56 8-86 8-61 8-70 9-46	Rs 175 156 163 166 167 186 221 186 221 186 221 210 213 250 269 283 302 278 219 179 204 204 221 225	45·46 47·36 40·57 45·74 48·10 40·33 45·80 46·00 40·24 46·22 40·04 45·97 45·93 40·00 45·87 40·01 40·28 40·57 45·00 45·00 45·00 45·00 45·00	

⁽a) This excludes Rs. 4,837 on account of cost of Law and Order (Police) payable to the Civil Department.

(c) Eastern Bengal railway (2' 6" gauge)-

The Santipur-Krishnagar branch originally the Ranaghat-Krishnagar branch has been amalgamated with the Eastern Bengal railway system from 1st July 1904. This branch has been extended to Nabadwipghat and opened to traffic on the 30th June 1926.

Procress in opening-

Sections of railway	Date of opening.	Miles.	Total.
ı	2	3	4
Santipur-Krishnagar and Krishnagar-Naladuspghat branch— Santipur to Krishnagar Krishnagar to Nabadwipghat	5-4-99 30-6-26	9*50 7:64	
Total .	••	••	17-14

(e) Eastern Bengal railway (2' 6" gauge)—concld.

· Details of construction-

Permanent-way.—The rails are flat-footed steel, second-hand 41½ lb. per yard and sleepers are laid on sâl.

Ballast.—The line is ballasted with bricks.

Fencing.—No lines on the 2' 6" gauge are fenced.

Curves .- The sharpest curve is of 382 feet radius.

Gradients.—The ruling gradient on the Santipur-Krishnagar section is 1 in 500, and on the Krishnagar-Nabadwipghat is 1 in 100.

Contracts-

Nil.—The line is owned and worked by the State.

Statistics of working-

Included with the Eastern Bengal railway (5' 6" gauge).

(f) Khulna-Bagerhat railway (2' 6" gauge)-

Managing Agents.-Messrs. Ambalal, Himatlal & Co., Ahmedabad.

Date of registration of the Company .-- 1916.

The construction of this line by the Eastern Bengal railway on behalf of a Branch Line Company was sanctioned in Railway Board's Notification No. 448-P., dated the 9th March 1916. The line commences at Rupsa East on the left bank of the Rupsa river and runs in a south-easterly direction parallel to the Bhyrub river to Bagerhat.

Progress in opening-

Section of railway.									Date of opening.	Miles.	Total.	
			1							2	3	4
Rupsa East to Bagerhat	•				•	•		•	•	10-6-18	19•75	19.75

Details of construction—

Permanent-way.—The permanent-way consists of second-hand flat-footed steel rails, 41½ lbs. per yard laid on sâl sleepers.

Ballast.—The line is ballasted with bricks and sand.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 573 feet radius.

Gradients.-The ruling gradient is 1 in 1,000.

Contract-

Dated the 19th May 1921, between the Secretary of State for India and the Khulna-Ragerhat railway Company, as to the construction, maintenance and working of the Khulna-Bagerhat railway, by the agency of the Eastern Bengal railway.

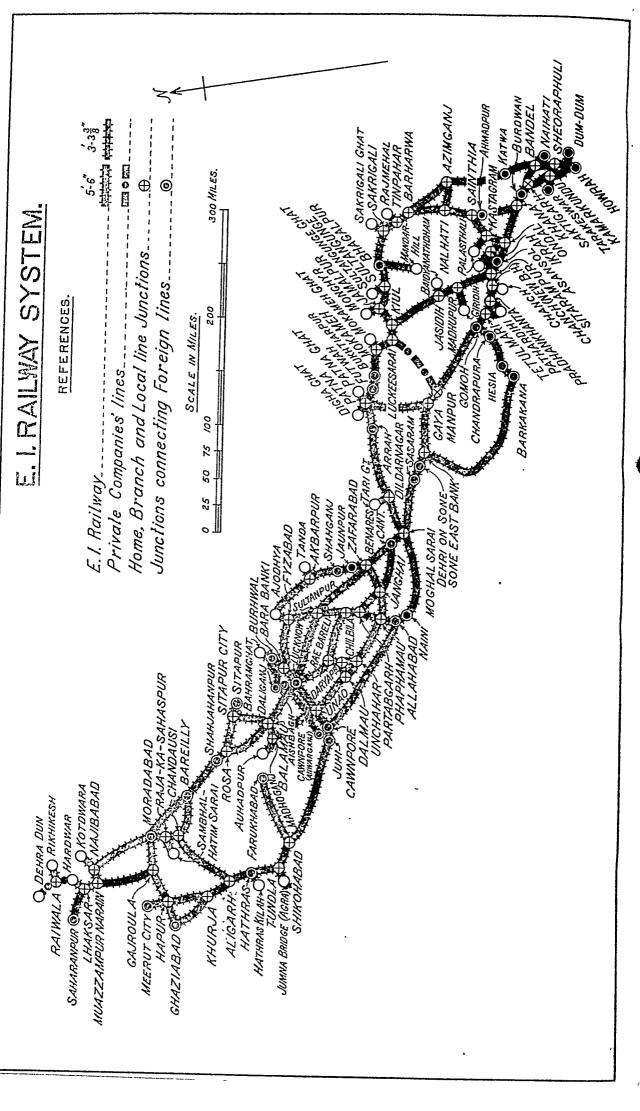
Main provisions of contract-

- (i) Land.—Land in British territory provided by Government free of cost.
- (ii) Government aid.—For the more convenient and economical construction of the railway, its execution was undertaken by the Government, who also manage, maintain and work the line and its rolling-stock through the agency of the Eastern Bengal railway. The Government agree to allow to the Company, in respect of each year, by way of rebate, such a sum not exceeding in any year the net earnings from traffic, except stores for maintenance or working, interchanged between the Eastern Bengal railway and the Company's railway as shall, together with the net receipts of the Company for the said year. make up an amount equal to interest for such year at a rate of 5 per cent. per annum on the share capital of the Company for the time being paid up and shall also allow Rs. 3,500 and such other actual expenses as may be incurred by the Company for or towards office expenses and expenses of management and direction of the Company and also such legal expenses as shall have been approved by the Secretary of State.
- (iii) Terms of working.—The line with its rolling-stock is maintained, managed and worked for 45 per cent. of gross earnings.
- (iv) Distribution of profits.—If the net earnings exceed 5 per cent. on the paid up share capital of the Company, the office expenses and expenses of management and direction of the Company as at (ii) above shall be a first charge on the surplus profits and the balance of the profit shall be divided equally between the Secretary of State and the Company. If the surplus profits are insufficient to meet the administrative charges in full the balance will be paid to the Company by the working agency out of the stipulated percentage of the earnings retained by the working agency as working expenses

- (f) Khulna-Bagerhat railway (2' 6" gauge)-concld.
 - Main provisions of contract-concld.
 - (v) Rates and fares.—The rates and fares for the carriage of goods and coaching traffic over the railway shall be such as may from time to time be sanctioned by the Secretary of State and the classification of goods thereon shall be in conformity with that from time to time in force on the Eastern Bengal railway.
 - (vi) Special obligations as to the conveyance of -
 - (a) Mails, troops, police, high Government officials and Government stores-All matters and
 - things in connection (b) Government bullion and coin and persons in charge thereofwith the working,
 - management and maintenance of the railway and conduct of traffic thereon including police, telegraphs and telegraphic appliances and telephones shall in all respects as far as practicable be carried on in the same manner and subject to the same regulations and control by the Secretary of State as the same are carried on the Eastern Bengal railway, and the Company shall not interfere or be concerned therewith.
 - (vii) Power of the Government to determine contract.—The Government may determine the contract by giving 12 months' 'notice of purchase' either on the 31st March 1948 or at the expiry of any subsequent period of 10 years, in which case the Government undertake to pay to the Company a sum equal to 25 times the amount of the average yearly net earnings of the Company's line (excluding payments on account of rebate) derived during the 3 preceding years, provided that the total amount so payable does not exceed by more than 20 per cent. of the total capital expenditure of the Company or is less than such capital expenditure.
 - The contract may also be determined by giving to the Company 12 months' 'notice of special purchase' in the following cases:-
 - (a) when the Secretary of State considers it desirable that the gauge of the railway should be altered:
 - (b) when it is desired to convert the railway into a line of through communication;
 - (c) when the Secretary of State desires to extend the railway and the Company does not raise within 6 months additional capital necessary for the construction of the extension.
 - If the contract be determined by "notice of special purchase" the Government undertake to pay to the Company 25 times the average net earnings of the line (excluding payments on account of rebate) during the 3 years preceding or 115 per cent. of the total capital expenditure of the Company whichever may be the greater.
 - (viii) Power of the Company to surrender contract.—Nil.
 - (ix) Term of contract [if not determined under (vii)].—None specified.

Statistics of working-

Year.	Mileage open at end of each year	Total capital outlay, includ- ing suspense, to end of each year; i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earn- ings.	Net earn- ings.	Percentage of net earnings on total capital outlay given in column (3).	Rebate from (+), or share of surplus profits payable to (—), the Eastern Bengal railway.	Total income.	Percentage of total income on total capital outlay given in column (3)	mile	Proportion of expenses to earnings
1	2	3	4	5	6	7	8	9	10	" 11
	Miles	Rs.	Rs.	Rs.		Rs.	Rs.		Rs.	
1918-19 1919-20	19·75 19·75	7,95,986 7,81,641		18,492 41,896	2·32 5·36	+1,102	19,594 41,896	2·46 5·36	40 74	45.00 45.00
1920-21 1921-22	19·75 19·75	8,09,017 8,21,948		45,286 46,297	5·60 5·36		45,286 46,297	5·63	80 82	45·00 45·00
1922-23 1923-24	19·75 19·75	8,30,602 8,30,602	87,334 1,03,670	48,034 57,019	5·78 6·86	 _1,132	48,034 55,887	5·78 , 6·73	85 101	45·00 45·00
1924-25 1926-26	19·75 19·75	8,32,061 8,53,041	1,08,049 1,16,707		7·14 7·52	3,549 7,704	55,878 56,485	6·72 6·62	105 114	45•00 45•0
1926-27 1927-28	19·75 19·75	8,60,685 8,55,804	1,27,828 1,26,426		8·17 8·12	-8,614 -11,562	61,691 57,972	7·17 6 77	124 123	45.00 45.00
1928-29 1929-30	19·75 19·75	8,59,416 8,64,487	1,23,353 1,24,456	67,844 68,451	7 · 89 -7 · 92	-10,444 -9,161	57,400 59,290	6·68 6·86	120 121	45·00 45·00
1930-31 1931-32	-19·75 19·75	8,73,841 8,79,691	1,19,703 1,11,806	65,837 61,493			56,713 53,041	6·49 6·03	117 109	45·00 45·0 0
1932-33 1933-34	19·75 19·75	8,78,890 8,91,279	84,993 82,215	46,746 45,218	5·32 5·07	-6,670 +2,451	40,076 47,669	4·56 5·35	83 80	45·00 45·00
1934-35 1935-36	19·75 19·75	893,072 9,01,935	83,148 82,482	45,732 45,365	5·12 5·03	::	45,732 45,365	5·12 5·03	80 80	45·00 45·00
1936-37	19.75	8,95,015	86,577	47,617	5.32		47,617	5.32	84	45.00



Lines comprised in the system -The East Indian railway system is made up of-

	-							Open line.	Under construction or sanctioned for construction	Total.
74								Miles.	Miles.	Miles.
(a) East Indian rallway (5' 6" gauge)					•			*4,217 · 34		*4,217.34
(b) Hardwar-Dehra railway (5' 6" gauge)						•		32.04		32.04
(c) South Bihar railway (5' 6 gauge)								75.82		75.82
(d) Caunpore-Burhwal link (3' 3% gauge)						•		*80.34		*80.34
(e) Benares-City Branch (3' 3\section" gauge)	•	•	•	•	•	•	•	2.18		2.18
			_		,	Total		4,407.72		4,407.72

Running powers-

Home line over Foreign lines :	•						Miles.
Jumna Bridge to Agra Cantonment via Agra Fort, Bombay, I trains only	Baroda and Centra	India	railway	, for p	asseng	ger	4.00
Agra East Bank to Fatchpur Sikri, Bombay, Baroda and Centra	l India railway, fo	r ballast	trains	only	•		25.00
Naihati to K. P. Docks, Eastern Bengal railway, for passenger	and goods trains			•	•		32.00
Dum Dum to Chitpore, goods trains only							4.50
Jumna Bridge to Agra Cantonment via Agra City, Great Indian	Peninsula railway,	for pass	enger a	nd good	ls trai	ns	5.25
Allahabad to Sankargarh, Great Indian Peninsula railway, for l	allast trains only						22.00
Ghaziabad to Delhi, North Western railway, for passenger trains	only						12.63
Hynden Cabin to Saharanpur via Khan-Alampura North Western	railway, for good	s trains	only				4.50
Hynden Cabin to Saharanpur, for Coaching							3.75
Meerut City to Meerut Cantonment, North Western railway, for p.	assenger trains only	٠					3.00
Jumuniatand to Chandrapura, Bengal Nagpur railway, for passe	nger trains only						5.00
f vreion lines over Home line :—				10	tal	•	121.63
Great Indian Peninsula railway at Najni Junction to Allahabad	for nassenger trai	na .	_				5.27
Great Indian Peninsula railway, Cawnpore Central to Lucknow, for	, ,			•	•	•	44.63
Bengal and North-Western railway, Cawnpore to Aishbagh, 45.03 35.31 miles (Cawnpore-Burhwal link, 3'3\gamma' gauge). Rehilkund and Kumaon railway, over Ramganga bridge between Rohilkund and Kumaon railway, over Ramganga bridge betw	miles, and Daligan Bareilly and Basha	to Bur	}	for pas and go trains.		{	80·34 0·52 0·40
Eastern Bengal Railway, Azimgunge to Bakudih via Ba	ndel Barharwa lo	oop for	depar	tmenta •	l sto	ne	60•89
Bombay, Baroda and Central India Railway, Anwar Gunj	to Campore Co	ntral, f	or pass	enger	train:	ទ] •75
Bengal Nagpur Railway, Barkakana-Chandrapura, for goods trail	ns only	• •	•	•	•	•	62.50
				То	tal	. :	256:30

(a) East Indian railway (5' 6" gauge)—

The property owned by the old guaranteed East Indian Railway Company, which was purchased by the State in 1879, was worked by a reconstituted company to the end of 1924 when all the contracts then subsisting between the Secretary of State and the Company were determined and the line was brought under direct State management with effect from the 1st January 1925.

The Oudh and Rohilkhand railway was acquired by the State from the late Guaranteed Company on the 1st January 1889 and this railway was amalgamated with the East Indian railway with effect from the 1st July 1925.

A tramway constructed at the expense of Messrs. Carew and Company connects the Rosa Sugar factory with Rosa station on the Oudh and Rohilkhand section of the East Indian railway. This tramway is 3.25 miles long and is worked by cattle power. It is used for goods traffic only.

^{*} The mixed gauge between Burhwal and Bara Banki (16.79 miles) is included both in the broad gauge and the metre gauge.

(a) East Indian railway (5' 6" gauge)—contd.

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	Remarks.
1	2	3	4	5	6
Main line-					
Howrah to Hooghly	15-8-54	23.28	1	1	
Hooghly to Pundooah Pundooah to Khana Junction	1-9-54 3-2-55	14·31 36·85]	}	
Khana Junction to Rancegunge .	3-2-55	45.71	1		
Rane-gunge to Siarsol (near Asansol) .	. 21-7-63	1.70)		
Siarsol (near Asansol) to Sitarampus .	1-1-65	15.15	1	}	
Sitarampur to Luckeeseral Junction . Luckeeseral to Dinaporo	. 1.1.71	124·50 82·42	1		
Dinapore to Moghal Sarai	22-12-62	125.92	1		•
Moghal Sarai to Mirzapur	. 1-1-61	39.28	l		}
Mirrapur to South Bank, Jumna	4-4-64	52.05	1	1	
Jumna Bridge to Allahabad	15-8 65	2·75 119·47	1	1	}
Campore to Etawah	1.7.61	86.46		}	
Etawah to Shikohabad	. 13-11-61	34.39	1		
Shikohabad to Tundla Junction .	1-4-62	22.02	Į.		1
Tundla Junction to Aligarh Aligarh to Chola (Bulandshahr Road)	1.3 63	48.50 35.51	1		
Chola to Ghaziabad	1-8-64	29.14	ļ	<u> </u>	
			941.39	l	
Loop line-	2 10 20	22.02	{	1	
Khana Junction to River Adjai River Adjai to Sainthia	3-10-59	20·87 24·11	1	l	(
Sainthia to Tinpahar	3.9.69	76.14	l	1	[
Tinpahar to Bhagalpur	. 1-11-61	69.53	1	1	
Bhagalpur to Jamalpur	. 10-2-62	31.48	1	1	
Jamelpur to Kiul	7-11-62	23.00	253-13		
Frand Chord—			203-13		
Sitarampur to Barakar	. 1-1-65	5.43	}		
Barakar to Dhanbad	20-5-94	25.75			
Dhanbad to Paharpur	6-12-00	103.69		1	-
Paharpur to Manpur	15-8-06	17·42 3·45		}	
Gaya to Moghal Sarai	1.3.00	118.95		}	
lowrah-Burdwan Chord-			274-69		
A point 6 miles from Howrah to Saktigha	1-1-17	45.26	45.26		li .
ranches on the Main line-			40.20		
Tarkessur branch—* Sheoraphuli to Tarkessur	1-1-85	22-23)	*This line was con structed by the Ta
	1-1-55		22.23		kessur Railway Con
Naihati branch— Bandel Junction to Naihati	15-3-87	4.47			pany and worked b the East Indian Rai
	10-5-51		4.47	[[way Company, und
Bandel-Barharwa branch— Bandel Junction to Nabadwip			•		an agreement, up
Nabadwip to Katwa	1-4-12 15-5-12	40.47			the 31st Decemb 1914. It was acqui
Katwa to Jangipur Road	1.5.13	24·44 60·80			ed by the State an
Jangipur Road to Dhulian Ganges	31-1-13	17.36]	incorporated wit
Dhulian Ganges to Barharwa	19-1-11	16.74	105.01		the East India
Sakrigalighat branch	15-10-20	1.20	165.81		railway on the lanuary 1915.
ndal-Sainthia Chord—	10-10-20		1.20		oundary roros
Ondal to Sainthia	10.10.00	42.00			
•	10-12-08	43.82	43.82		
hadreswar Ghat branch—			10 02		
Bhadreswar to River Bank	6-12-92	2.60	0.00		
asta coal-fields branch-			2.60		
Mile 130.42 on the Ondal Sainthia Chord to	15-5-22	17.01			
Palasthalai. ndal loop—			17.01		
Ondal to Baboisole					
Baboisole to Mangalpur	1-5-64	2·03 2·74		1	f
Mangalpur to Toposi	2-2-63	2.65		1	
Toposi to Ikrah Junction	15-4-94	2.42			
Ikrah Junction to Gaurangdi Buktarnagar-Ondal connection	1.6.95	14.20			
-	16-11-20	0.91	24.95	j	
oposi Barabani Chord —			27 80)	
Toposi to mile 3.79 Mile 3.79 to mile 6.50	15-6-08	3.70		}	
Mile 6.50 to Barabani	19-4-15	2.71]	
• • •	1-4-25	4.62	11.12		
rah branch Ikrah Junction to Barabani	1				
Barabani to Sitarampur	15-4-94	·8·40		}	
	15-4-02	6.98	15.38		
	1		10.99		
Carried over	1			7,000.00	
		.0	••	1,823.06	

(a) East Indian railway (5' 6" gauge)—contd.

Rajmehal branch— Tinpahar Junction to Rajmehal	Progress in opening—contd.					
Salaspur branch	Sections of railway	of	Miles.	Total.	Grand total.	Remare.
Salarpur to Shamdi	1	2	3	4	5	6
Salangur to Shamdi	Brought forward				1,823.06	
Salangur to Shamdi	Salanmur branch-					
Maillaymy Junction to Giridih		{ 7-9-94 { 1-1-97		5·K3		
Desphare branch*	Giridih branch— Madhupur Junction to Giridih	1-1-71	26.70			*This line was con-
Mokameh Ghat branch	Deoghur branch*— Jasidih Junction to Baldyanathdham	23-12-82	4.12			structed on the 3' 3\frac{3}{2}" gauge and worked
	Tal Junction, via Mokameh Ghat to Moka-	1-5-83	3.70			Co. of Calcutta up to the 30th June 1911. It was acquired by
Paths Charle Description Paths Charles Description Paths Charles Description Paths Charles Description Paths Charles Description Paths Charles Description Paths Description Paths Description Paths Description Paths Description Paths Description Paths Description Paths Description Paths Description Paths Description Paths Description Description Paths Description D	Hathdah Ghat branch— Hathdah Junction to Hathdah Ghat .			7.07		porated with the East Indian railway
Patna_Junction to Jehana		17-11-62	0.87			and converted to the 5'6" gauge on the
Pattan Junction to Jehanabad 21.4-79 28-95 28-48 57-68 28-95 28-48 57-68 28-95 28-48 57-68 28-95 28-48 57-68 28-95 28-48 57-68 28-95 28-	Patna-Gaya branch†—	0.670	0.05	0.81		-
Dipha Ghat branch	Patna Junction to Jehanabad	21-4-79	28.95			structed by the State
Patra Junction to Digha Ghat		2-6-79	28.48	57 · 68		agency up to 1882.
Tari Ghat brancht	Patna Junction to Digha Ghat			A. 88		the East Indian Rail- way Company to be
Allahabad Fort branch	Tari Ghat branch! — Dildarnagar Junction to Tari Ghat	5-10-80	12.00			agreement, on the 1st January 1883
Allahabad Fortbranch 3-3-59 2-14 2-1				12 00		with the East Indian
Shikohabad Farukhabad branch— Shikohabad Farukhabad branch— Shikohabad Farukhabad branch— Shikohabad Farukhabad 1-1-06 29-71 Shikohabad Farukhabad 1-1-06 8 - 63 27-47 65-81 Shikohabad Farukhabad 1-1-06 27-47 65-81 Shikohabad Farukhabad 1-1-06 27-47 65-81 Shikohabad Farukhabad 1-1-06 27-47 65-81 Shikohabad Farukhabad 1-1-08 27-47 65-81 Shikohabad Farukhabad 1-1-08 27-47 65-81 Shikohabad Farukhabad 1-1-08 27-47 65-81 Shikohabad Farukhabad 1-1-08 27-47 65-81 Shikohabad Farukhabad 1-1-08 27-47 65-81 Shikohabad Farukhabad 1-1-08 27-47 Shikohabad Farukhabad 1-1-08 31-48 Shikohabad Farukhabad 1-1-08 31-48 Shikohabad Farukhabad 1-1-08 Shikohabad Farukhabad 1-1-08 Shikohabad Farukhabad 1-1-08 Shikohabad Farukhabad Farukhabad Farukhabad 1-1-08 Shikohabad Farukhabad Farukhabad 1-1-08 Shikohabad Farukhabad Farukhabad Farukhabad Farukhabad Farukhabad Farukhabad Farukhabad 1-1-08 Shikohabad Farukh	Allahabad Fort branch	3-3-59	2.14	2.14		
Shikohabad Farukhabad branch Shikohabad to Mainpuri to Bhongaon 17.8-05 8 · 63 27 · 47 65 · 81 Mainpuri to Bhongaon 17.8-05 8 · 63 27 · 47 65 · 81 Mainpuri to Bhongaon 17.8-05 8 · 63 27 · 47 65 · 81 Mainpuri to Bhongaon 17.8-05 8 · 63 27 · 47 65 · 81 Mainpuri to Bhongaon 17.8-05 8 · 63 27 · 47 65 · 81 Mainpuri to Bhongaon 17.8-05 8 · 63 27 · 47 65 · 81 Mainpuri to Jumna bridge 1.1-08 0 · 96	Cawnpore city branch	15-2-79	0.88			
Agra branch— Tundla Junction to Jumna bridge 1.4-62 12-52 Jumna bridge to Agra city (Agra direct access). 13-48 1	Shikohabad to Mainpuri	17-8-05	8.63			State railway which was incorporated with the East Indian railway on the lat
Hathras Junction to Hathras Kilsh . I-II-98 5-92 5-92 Hapur branch— Khurja to Bulandshahr . 7-2-07 14-00 Bulandshahr to Hapur . 15-4-07 24-86 Branches on the loop line— Azimgani branch— Nalhati to Azimgani branch— Tinpahar Junction to Rajmehal . 15-10-60 7-00 Bhagalpur-Bausi branch— Bhagalpur to Mandar Hill . 1-10-26 31-13 Sultangunge Ghat branch— Sultangunge Ghat branch— Sultangunge Junction to Sultangunge Ghat Monghyr branch— Jamalpur Junction to Monghyr . 10-4-62 5-68 Branches on the Grand Chord— Chanch block hut to mile 197-30 . { Between main line and grand chord at Sitarampur. I -11-98 5-92 5	Tundla Junction to Jumna bridge Jumna bridge to Agra city (Agra direct ac-			00.91		January 1889.
Hathras Junction to Hathras Kilah .	Hathras branch—			13.48		-
Khurja to Bulandshahr	Hathras Junction to Hathras Kilah	1-11-98	5.92	5.92		
Azimganj branchş— Nalhati to Azimganj Rajmehal branch— Tinpahar Junction to Rajmehal Bhagalpur-Bausi branch— Bhagalpur to Mandar Hill Sultangunge Ghat branch— Sultangunge Junction to Sultangunge Ghat Monghyr branch— Jamalpur Junction to Monghyr Chanch block hut to mile 197·30 Between main line and grand chord at Sitarampur. 21-12-63 27·23 27·23 27·23 SThis line was constructed by the Indian Branch (afterwards Oudh and Rohilkhand) Railway Company as a 4' gauge line. I · 10-26 31·13 1 · 16 I · 16 I · 16 Foranches on the Grand Chord— Chanch block hut to mile 197·30 Chanch block hut to mile 197·30 Between main line and grand chord at Sitarampur. Chanch Sitarampur. 21-12-63 27·23 27·23 SThis line was constructed by the Indian Rohilkhand) Railway Company as a 4' gauge line. I · 10-26 S · 68 I · 10 S · 68	Khurja to Bulandshahr			38•86		
Rajmehal branch— Tinpahar Junction to Rajmehal	Azimganj branch§—	21-12-63	27.23	27•23		structed by the
Bhagalpur-Bausi branch— Bhagalpur to Mandar Hill Sultangunge Ghat branch— Sultangunge Junction to Sultangunge Ghat Monghyr branch— Jamalpur Junction to Monghyr Chanch block hut to mile 197·30 Between main line and grand chord at Sitarampur. Bhagalpur-Bausi branch— 1-10-26 31·13 31·13 31·13 31·13 1·16 1·16 1·16 1·16 1·16 1·16 5·68 5·68 5·68 5·68 5·68 5·68 5·68 1·2-93 5-8-96 1·00 3·88 Between main line and grand chord at Sitarampur.	Rajmehal branch— Tinpahar Junction to Rajmehal	15-10-60	7.00			(afterwards Oudh and Rohilkhand)
Sultanguage Ghat branch— Sultanguage Junction to Sultanguage Ghat Monghyr branch— Jamalpur Junction to Monghyr Chanch branch— Chanch block hut to mile 197·30 Between main line and grand chord at Sitarampur. Sultanguage Ghat branch— 1·16 1·16 1·16 1·16 1·16 1·16 1·16 1·16 S·68 5·68 5·68 5·68 1·00 3·88 1·26 3·22·76	Bhagalpur-Bausi branch— Bhagalpur to Mandar Hill	1-10-26	31.13			as a 4' gauge line. It was purchased by
Monghyr branch— Jamalpur Junction to Monghyr Branches on the Grand Chord— Chanch branch— Chanch block hut to mile 197·30 . { 1-2-93		6-5-95	1.16			March 1872, incorporated with the East
Branches on the Grand Chord— Chanch branch— Chanch block hut to mile 197·30 . 1-2-93 2·88 1·00 3·88	Monghyr branch— Jamalpur Junction to Monghyr	10-4-62	5.68			the 1st April 1892 and opened on the
Chanch block hut to mile 197·30 . { 1-2-93	Branches on the Grand Chord— Chanch branch—			0.08		
Between main line and grand chord at Sita- rampur. 1.26 3.1-19 1.26 322.76	•					
		3-1-19	1.26	1	322.76	
	•					-

(a) East Indian railway (5' 6" gauge)—contd.

Progress in opening-contd.

Progress in opening—contd.					
Sections of railway.	Date of opening.	Miles.	Total.	Grana total.	Remare.
i	2	3	4	5	6
Brought forward	••	••		2,145.82	
Pandra branch— Pandra block hut to mile 151.41	26-11-00	2.00	2.60		
Pradhankhunta-Pathardihi Chord— Pradhankhunta to Pathardihi	1-1-13	9.59	9.59		
Katras branch— Dhanbad to Katrasgarh and beyond	{20-5-91 {1-11-18	9·11 2·35			
Damuda branch— Kusunda to Jharja	30-6 95 (30-6-95	3·60 3·40	11:46		
Jharla to Pathardihi	(15-7-98	3.19	8.77		
Jheragurah Goluckdih branch—	$\begin{cases} 20 & 9.21 \\ 31.3.33 \end{cases}$	0.86	4.05		
Dhanbad to Jharla	1 5-03	3.75	3.75		
Kusunda-Tetulmari link— Kusunda to Tetulmari (including portion of Chandur branch).	20-4-07 6-12-06	3. 2	3.15		
Katras-Khanoodih extension- Katrasgarh to Khanoodih	7-3-03	7.17	7-17		
Jamunatand link— Khanoodih extension mile 182.58 to mile 184.55 on the Bokharo Colliery joint line.	11-10-16	1 97	1.97		
Katras Mulkera cross connection— Northern half of connection	15-8-03	0.68			
Katras Grand Chord link	1-11-18	2.65	0·66 2·65		
Jhennagurah Branch	31-10-04	2:31	2.31		
Barun-Daltonganj branch— Sone East Bank (Barun) to Rajbara Rajbara to Daltonganj	3.5 02 5.12.02	67·3) 10·72			
Gomoh Chandrapura Chord	1-5-27	9.96	78·02 9·96		
Chandrapura to Bermo*	1-9-15 1-8-25 31-3-26	11.58 20.75 22.53	_		* These sections were constructed
Barkakana to Barwardih	1-2-29 31-1-29	95·94 17·44	54·86 113·38		by the B. N. Railway and transferred to E. I. Rail,
Mountaine— Moghal Sarai to mile 3.98 Mile 3.98, south of the Dufferin bridge, to	22-12-62 1-10-87	3·64 4·25	110 00		way on 1-4-28.
Kashi (Benares Ganges) station. (Kashi Benares Ganges) station to Benares Cantonment.	18-6-83	1.20			
Benares Cantonment to Rae Bareli. Rae Bareli to Lucknow Lucknow to Sandila Sandila to Hardol Hardoi to Shahjahanpur Shahjahanpur to Pitambarpur Pitambarpur to Barellly	4-4-98 15-10-93 1-2-72 15-7-72 1-3-73 8-9-73 1-11-74	138·78 48·68 30·24 33·00 39·00 32·00 13·00			•
Barelliy to Moradabad (chord une t d Rampur). Moradabad to Nagina . Nagina to Najibabad . Najibabad to Saharanpur	8 6-94 8-10-84 1-4-85 1-1-86	†56·07 47·25 13·74 56·28			†Of this, 0.49 mile over the Ram- ganga bridge (Moradabad) is of mixed (5' 6' and
Benares-Lucknow loop— Benares Cantonment to Shahgani Shahgani to Bilwai Bilwai to Malipur Malipur to Akbarpur Akbarpur to Fyzabad Fyzabad to Bara Banki Bara Banki to Lucknow Block hut	5-1-74 1-5-74 18-4-74 2-3-74 10-6-73 25-11-72 1-4-72	56·03 7·00 9·00 12·00 38·24 61·97 14·43	617-43 198-67	1,030•51	3'3§") gauge
Carried over .	••		••	3,176-33	

(a) East Indian railway (5' 6" gauge)—contd.

Progress in ananing-contd.

Sections of railway.	Date of opening.	Miles.	Total.	Grand total	REMARKS.
1	2	3	4	5	6
Brought forward			•••	3,176.33	
Lucknow-Sultanpur Zafarabad branch— Utratia to Hydergarh	31-3-31	27.75			•
Hydergarh to Sultanpur	31-3-32 25-5-32	51·58 56·78		1	
	21-12-30		136-11		
- Unao-Madhoganj branch	21-12-30	47.93	47.93		
Bareilly-Moradabad loop— Bareilly to mile 5	22-12-73	15.00			‡()f this, 1.17 miles
Mile 5 to Aonla	1-11-73	i1·00			over Ramoanoa
Aonla to Chandausi	10-6-73 28-10-72	27·00 27·22			bridge (Bareilly) are of mixed (5' 6"
Branches on the main line—		~	70.22		and 3' 3%") gauge.
Cawnpore branch— Lucknow to left bank of Cawnpore Ganges	23-4-67	40.78		(
Left bank of the Ganges to junction with	15-7-75	3.22			
the old East Indian railway at Cawn- pore.			44.00		
Balamau-Madhoganj branch—	20-12-03	74.00	•-		
Balamau to Madhoganj	20-12-03	14.20	14.20		
Madhoganj-Auhadpur extension— Madhoganj to Bilgram	15-11-09	7.62			
Bilgram to Auhadpur	9-3-10	9.43	37.05		
Balamau-Sitapur branch—	1		17.05		
Balamau to Misrikh	9-3-10 5-4-10	22·44 14·32			
•		<u> </u>	36.76		
Chandpur Bijnor Muazzampur Narain Branch.	5-1-30	36.60	!		
Rosa-Silapur branch—			36.60		
Rosa to Sitapur City	18-6-10	49.22			
Sitapur City to Sitapur Cantonment .	{ 2-2-11 6-4-14	2·60 0·77			
Moradabad-Ghaziahad branch—		<u> </u>	52.65		
Moradabad to Gajroula	1-4-00	33.40			}
Gajroula to Ghaziabad	25-11-00	53.37	86.77		1
Hapur-Meerut branch— Hapur to Meerut	7-11-04	17.91			
			17.91	1	
Kotdwara branch— Najibabad Junction to the right bank of	24-12-96	15.19			i }
the Koh river opposite Kotdwara .			15-19		
Hardwar branch-	}				
Lhaksar Junction to the left bank of the Ganges Canal near Jawalapur	1-1-86	13.53			
Left bank of the Ganges Canal near Jawala pur to Hardwar	20-8-86	3.53			
•	20-0-80		17.06		
Rikhikesh branch— Raiwala to Rikhikesh	2-4-27	7.16			
Branches on Benarcs-Lucknow loop—		<u> </u>	7.16		
Allahabad-Fyzabad branch— Fyzabad to Sultanpur	1-2-04	35.50			1
Sultanpur to Siwait*	1-7-03 20-1-04	*47·05 3·27			*Excluding 2.46 miles, between Par
Phaphamau to Allahabad	1-1-05	7.00	00.00		tabgarh and Chil.
Allahabad-Jaunpur branch—			92.82		bila, which is a part of the main
Phaphamau to Mariahu	18-6-06 1-1-07	47.51 10.67			line.
	2-1-0.		58•18]
Bahramghat branch— Bara Banki to Bahramghat	20-11-72	†21.52			†Of this the length
Branches on the Bareilly-Moradabad loop-	1		21.52		from Burhwal to
Aligarh branch —					Bara Banki, 16.79 miles, is of mixed
Chandausi to Rajghat Narora	28-10-72 1-2-72	30·48 30·12			(5' 6" and 3' 3%" gauge.
			60.60		0
Allahabad-Rae Bareli-Cawnpore branch— Phaphamau to Rae Bareli	2-11-11	67.60		(
Daryapur to Dalmau	2-11-11 1-2-12	15·98 69·44		1	
oncomme to only , , , ,	1-2-12		§153·02	985-75	The line which was
			_	4,162.08	dismantled during the war was relaid
Carried over			• •		

a) East Indian railway (5' 6" gauge)—contd.

Progress in opening-contd.

rrogress in opening—coma.					
Sections of railway.	Date of opening.	Miles.	Total	Grand total.	Remarks.
1	2	3	4	5	6
Brought forward .			1	4,162.08	
Branches on the Barcilley Moradabad loop—coueld. Gajroula-Chandpur Siau branch— Gajroula to Chandpur Siau	7-6-11	21.88			
·			21.88		•
Raja-ka-Sahaspur to Sambal Hatim Sarai Akbarpur-Tanda branch—	25-6-12	14 · 64	- § 14·64		\$This line which was dismantled during
Akbarpur to Tanda	28-10-12	10.72	10.72		the war was relaid and opened on 8th January 1922.
Calcutta Chord Railway (sanctioned 23rd July 1925).	†1-2-32	8.00	8.00	55.24	†Opened for goods
Net excess on remeasurement	••	0.02	0.02	0.02	
Total 5' 6' gauge	t-4-99		2.18	4,217·31	Included in the statistics of work- ing of the E. I.
Total open mileage .				4,219 · 52	Riy.
Seven Track Line— Howrah station to mile 0.89	1-1-08	0.89	0.89	0.89	
Sextures line— Howard station from mile 0.89 to 0.97	1-1-08	0.08	0.08		
Quintuple line—	!		0.03	0.08	
Sorting yard cabin to mile 5;	1-1-17	4.01	4.01	4.01	
Serampore to Sheoraphuli Saktighar to Burdwan Burdwan to Khana Junction Borachuck to Sitarampur Rancegunj to Asansol Junction point of South Behar to Gaya	26-6-13 1-1-17 23-4-23 11-8-28 30-9-30 30-4-14	1·57 8·32 7·40 3·39 2·50 2·42	25.60		
TRIPLE LINE— Bally to Uttarpara Uttarpara to Serampore Sheoraphuli to Baldyabati. Baidyabati to Bhadreswar Talit to Khana Ondal to Rancegung Rancegungo to Asansol Asansol to Borachuck , to Barakar Grand Chord line to Barakar	1-10-15 3-6-12 18-9-13 17-4-16 1-1-59 16-11-20 22-7-07 13-3-24 1-7-27 25-4-28	1·04 5·32 1·50 2·61 0·96 4·21 8·60 1·42 1·66 3·22		25*60	
Double Line—			30.54	30.54	
On the main line— Bhadreswar to Chandernagore Chandernagore to Hooghly Hooghly to Magra Magra to Pundooah Pundooah to Saktighar Burdwan to Khana Khana to Durgapur Durgapur to Raneegungo Raneegunge to Sitarampur Sitarampur to Luckeeserai Luckeeserai to Burhee Burhee to Barh Barh to Futwah Futwah to Dinapore Dinapore to Bihta Bihta to Arrah Arrah to Buxar Buxar to Dildarnagar Dildarnagar to Zamania Zamania to Sakaldiha Sakaldiha to Moghal Sarai Moghal Sarai to Ahraura Road Ahraura Road to Kylahat Kylahat to Chunar Chunar Chunar Chunar	1-2-58 1-5-58 1-10-58 25-2-59 1-10-59 1-1-59 1-6-70 1-1-71 22-0-60 22-2-68 11-1-08 20-3-67 13-8-68 28-3-70 13-8-68 15-4-82 20-5-82 20-9-82 18-8-82 10-8-07 8-12-08 29-12-08 19-2-09	*2.54 3.05 5.48 8.80 *20.37 *0.32 31.35 *10.15 *0.90 124.59 9.82 27.00 25.87 19.63 10.84 13.64 42.63 22.47 8.42 16.17 13.27 7.92 4.95 5.22 4.91	440.31		*Exclusing triple length,
Carried over (Double Line)	••	••	••	440-31	•

(a) East Indian railway (5' 6" gauge)—contd.

Progress in opening-concld.

105tess in opanits—consist.	•			*****	
Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	Remarks.
1	2	3	4	5	6
Brought forward .	1		440.31		
Brought forward DOUBLE LINE—concld. On the main line—concld. Dagmagpur to Pahara Pahara to Jhingura Jhingura to Mirzapur Mirzapur to Bindhachal Bindhachal to Biroho Birohe to Gaipura Gaipura to Jigna Jigna to Mandah Road Mandah Road to Unchdih Unchdih to Meja Road Moja Road to Tonse bridge Tonse bridge to Bheerpur Bheerpur to Karchana Karchana to Chheoki Chheoki to Naini Naini to Allahabad Allahabad to Suba largango Tundla to Makhanpur Makhanpur to Sarai Bhopat Sarai Bhopat to Etawah Etawah to Ekdil Oa the branches of the main line— Naihati branch On the Grand Chord— Sitarampur to Barakar Barakar to Chauch Chanch to Mugma Mugma to Futka Futka to Kaloobathan Kaloobathan to Chheta Ambona Chhota Ambona to Pradhankhunta Pradhankhunta to Dhanbad Dhanbad to Tetulmari Tetulmari to Nichitpur Nichitpur to Matari Matari to Gomoh Gomoh to Hazaribagh Road Hazaribagh Road to Paras ubad Parasalad to Sarmatand Sarmatand to Gajhandi Gajhandi to Gurpa Tunkuppa to Bandhua Bandhua to Phalgu Bridge West Phalgu Bridge West Phalgu Bridge West Phalgu Bridge West Phalgu Bridge West Phalgu Bridge West Phalgu Bridge West Phalgu Bridge West Phalgu Bridge West Phalgu Bridge West Phalgu Bridge West Phalgu Bridge West Oupper Sone Bridge Upper Sone Bridge Upper Sone Bridge Upper Sone Bridge to Dehri-on-Sone Dehri-on-Sone to Khurmabad Khurmabad to Bhabhoa Road Bhab	27-2-09 16.1-08 6.8-07 6.7-11 12-7-11 26-0-11 10-10-11 10-11-11 23 11-11 23 11-11 10-4-11 0-4-11 0-4-11 0-4-11 10-4-11 10-4-13 27-1-09 31-1-07 (15-1-06 4-10-13 27-1-09 31-3-32 11-1-33 23-8-35 20-10-36 17-10-6 21-3-06 17-10-6 21-3-06 17-10-5 20-1-06 17-10-5 20-1-06 17-10-5 20-1-10-11 15-2-27 29-1-10-11 15-2-27 29-1-10-11 15-2-27 29-1-10-11 15-2-27 30-1-25 30-1-25 30-1-25 30-1-25 30-1-25 30-1-27 17-12-23 4-1-24 8-1-27 16-2-27 16-2-27 30-3-27 20-4-27 4-5-14 22-4-24 11-1-13	3 4.01 4.61 6.76 4.56 2.91 4.64 4.34 8.24 8.24 8.07 5.108 3.76 0.60 4.69 16.54 35.10 4.69 5.61 4.37 0.55* 1.62 3.78 3.16 2.59 5.79 3.68 2.59 5.79 3.16 3.10 2.271 16.80 10.40 10.11 1.52	4		
Between main line and grand chord at Sita- rampur.	3-1-19	1.26	14-67		
On the Howrah-Burdwan Chord— A point 6 miles from Howrah to Saktighar	1-1-17	45.26	45.26		
Lucknow Blockhut to Kakori Moghal Sami to Bechupur Bechupur to right bank of Dufferin Bridge Kashi to Benares Cantonment	11-10-09 21-4-13 21-12-12 5-3-13	11·57 1·24 4·19 2·82	19.82		
Calcutta chord Railway	15-4-33	8.08	8.08		
GRAND TOTAL, DOUBLE LINE		[••	940.78	•

a) East Indian railway (5' 6" gauge)—contd.

100 lbs. D. H. rails

100 lbs. B. S. F. F. rails

Details of construction (E. I. Section)-

Permanent-way. - The main line from Howrah to Ghaziabad including all branches is laid with steel rails. A few short branches such as Bhadreswar Ghat, Salanpur and Pandra branches are still partly laid with iron rails but these are being replaced with second-hand steel rails removed from main and branch lines in the course of relaying.

On the main line—Howrah to Allahabad—a distance of about 564 miles—the line is laid with the following rails :-

						Up.	Down.
85 lbs. B. H. steel rails		•	•	•		 66½ miles. 	142% mil s.
88½ lbs. ,, ,, ,,			•			. 262 ,,	1717 ,,
90 lbs. B. S. F. F. rails	•			•	•	· 1 mile.	1⅓ "
90 lbs. R. B. S. F. F. rails				•		$96\frac{1}{2}$ miles.	821 ,,
100 lbs. D. H. rails .						. 19 ‡ · "	183 ,,
100 lbs. B. S. F. F. rails						. 37½ "	1 1 ,,
115 lbs. B. S. F. E. rails		•	•			. 807 ,,	.146} ,,

Above Allahabad-Main line-Allahabad to Ghaziabad-a distance of about 376 miles the line is laid with the following rails :--

Up.

537

43

Down.

241

85 lbs. B. H. steel rails				•	•	•	•	533 1	miles.	$42\frac{5}{8}$ miles.
88½ lbs. B. H. steel rails	•		•	•				$212\frac{3}{5}$	**	213 ,,
90 lbs. R. B. S. F. F. rails						•		$22\frac{1}{2}$,,	`
100 lbs. D. H. rails	•			•	•	•	٠.	883	,,	🖁 mile
On the Grand Chord-	-Sit	aram	pore	to M	ogha	lsarai	<u>—</u> а	distar	nce of ab	out 281 miles—the line is
iaid with the following	rails	s :	_		Ū	•		$\vec{v_F}$) .	Down.
iaid with the following 85 lbs. B. H. steel rails	rail	3 : ·		•		•		ΰρ	mile.	Down. $1\frac{3}{4}$ miles.
Ŭ	rails					•		Up		
85 lbs. B. H. steel rails	rails					•	•	Up	mile. miles.	1 ³ miles.

115 lbs. B. S. F. F. rails 651 108} miles. On the Howrah-Burdwan Chord the rails laid are 90 lbs. flat-footed British standard for about 40 miles in single track (from mile 5 to 15 and mile 40 to 50), 88½ lbs. bull-headed for 5¼ miles. and 115 lbs. B. S. F. F. on the rest.

On Sahibgunge Loop the rails laid are 75 lbs. D. H. steel for about 92 miles, 85 lbs. B. H. rails for about 29 miles, 88½ lbs. B. H. rails for 113 miles and 90 lbs. R. B. S. rails for 16 miles.

The Bandel-Barharwa Branch is laid with 75 lbs. D. H. steel rails for about 137 miles, 73 lbs. D. H. steel rails for 5 miles and 85 lbs. B. H. steel rails for about 24 miles.

The Ondal—Sainthia Chord is laid with 75 lbs. F. F. (E. I. R.) steel rails except 5 miles with 85 lbs. B. H. rails.

The Chara, Giridih, Pathardihi—Pradhankunta link, Mokameh Ghat and Patna-Gaya branches are laid with 85 lbs. B. H. rails.

On Barkakana Loop-from Gomoh to Sone East Bank, a distance of about 255 miles-the rails laid are 90 lbs. F. F. B. S. for about 1763 miles, 90 lbs. R. B. S. for about 543 miles and 85 lbs. B. H. for 24 miles.

The Naihati and Tarakeswar Branches are laid with 882 lbs. B. H. steel rails and the Agra Branch with 90 lbs. F. F. R. B. S.

The Calcutta Chord Railway is laid with 115 lbs. B. S. F. F. steel rails for 8 miles, with 90 lbs. F. F. R. B. S. steel rails for 5 miles and with 85 lbs. B. H. steel rails for 3 miles.

The following branches are laid with 75 lbs. D. H. steel rails:—

- 1. Raimehal Branch.
- 2. Monghyr Branch.
- 3. Kasta Branch.
- 4. Ondal Loop.
- Barabani Loop.
- 6. Toposi-Barabani Chord.
- Deoghar Branch.
- 8. Dhanbad-Jheriah Chord (3 miles 75 lbs. & 1 mile 85 lbs.).
- 9. Nichitpur Link.
- 10. Katras-Jamuniatand Branch (excepting 9 miles with 85 lbs. in single track).

- 11. Tetulmari Link.
- 12. Damuda Branch.
- 13. Pathardihi Branch.
- 14. Goluckdih Branch (excepting one mile with 85 lbs.).
- 15. Katras-Khanudih Extension.
- 16. Jhennagurah Branch.17. Dighaghat Branch.
- 18. Tarighat Branch.
- 19. Shikohabad-Farukhabad Branch.
- 20. Khurja-Hapur Branch.
- 21. Hathras Kilah Branch.

(a) East Indian railway (5' 6" gauge)-contd.

Details of construction (E. I. Section)-concld.

- Sleepers.—At present about 29.21 per cent. of the sleepers are wooden and the remainder mostly iron. The wooden sleepers principally consist of Sâl and Deodar. The Chairs are castiron; the iron sleepers are of Denham Olphert Pattern Railway Board and E. I. R. pattern and steel trough sleepers. On the Agra Branch various types of cast-iron plate sleepers are laid.
- Ballast.—The line is ballasted throughout with stone.
- Fencing.—The line is fenced throughout except on the Damuda, Ikrah, Salanpur, Chanch, Pandra, Azimganj, Barun-Daltonganj, Shikohabad-Farukhabad branches, Katwa-Barharwa section of Bandel-Barharwa branch, Deoghar branch, the Ondal loop, the Ondal-Sainthia and Dhanbad-Jharia chords.
- Curves.—The sharpest curve on the E. I. Ry. is of 8° or 700 feet radius and is 'situated on the Katrasgarh branch between miles 168—169.
- Gradients.—The ruling gradient on the main line is 1 in 300, except between Raneegunge and Luckeeserai where it is 1 in 200 with a 1 in 100 banking section, between Simultala and Jhajha, and on the Grand Chord, 1 in 200 (compensated on curves), with a 1 in 80 banking section between Gurpa and Gujhandi. The ruling gradient on the Tarakeswar branch is 1 in 500, on the Howrah-Burdwan chord and the Shikohabad-Farukhabad branch 1 in 400, on the Barkakana loop, viz.. from Gomoh to Sone East Bank 1 in 150, on the Patna-Gaya and Digha Ghat branches 1 in 250. On the Bandel-Barharwa branch, the Sahibgunge loop, the Monghyr branch, the Ondal-Sainthia chord and on the Azimganj branch 1 in 100, and on the Deoghur branch 1 in 50 and on the Khurja-Hapur branch 1 in 200.

Details of construction (O. and R. Section).-

- Permanent-way.—The main line is laid with 90 lbs. flat-footed steel rails British Standard on wooden and C. I. sleepers. The Fyzabad loop is laid with 75 lbs. flat-footed steel rails for 77 miles on cast-iron pot sleepers, wooden sleepers, and Fowler boxes sleepers and with 90 lbs. flat-footed steel rails British Standard and R. B. S. for 121 miles on wooden and steel sleepers. On most of the branches the rails are 75 lbs. flat-footed steel. The Balamau-Auhadpur branch is laid partly with 75 lbs. flat-footed steel rails, and partly with 60 lbs. steel rails, and the Bahramghat branch with 75 lbs. flat-footed steel rails on wooden sleepers.
 - The Allahabad-Rae Bareli and Cawnpore branches are laid with 90 lbs. flat-footed steel rails, British Standard, on wooden and C. I. sleepers for about 61 miles and 75 lbs. I. S. R. F. F. on the rest.
 - The Lucknow-Sultanpur-Zafarabad branch is laid with 85 lbs. B. H. steel rails on wooden sleepers except 13 miles with 75 lbs. F. F. steel rails on wooden sleepers.
 - The Moradabad-Delhi branch is partly laid with 75 lbs. I. S. R. F. F. and partly with 90 lbs. R. B. S. F. F. rails.
 - The sleepers are of the following types:—Stamped steel bowls, cast-iron pots (Fowler's patent box, Walton's Hederstedts and M. C.), steel trough and wood (sâl, deodar and Australian hard wood).
- Ballast.—The main line and branches are ballasted with sand, kunkur, stone, shingle and broken brick.
- Fencing.—The line is fenced throughout with the exception of the Balamau-Auhadpur, Rosa-Sitapur, Gajroula-Chandpur, Hapur-Meerut, Rajaka Sahaspur-Sambhal Hatim Sarai and Kotdwara branches and a portion of the Allahabad-Jaunpur branch, Unao-Madhoganj, Lucknow-Sultanpur-Zafarabad Railway, Chandpur-Bijnor-Muazzampur-Narain and Behramghat branches.
- Curves.—The sharpest curve on the line is of 6° or 955 feet radius.
- Gradients.—The ruling gradient on the main line is 1 in 400 between Lucknow and Moradabad; 1 in 300 between Moghal Sarai and Lucknow; 1 in 250 between Lhaksar and Saharanpur; 1 in 200 between Moradabad and Lhaksar. On the loop line the ruling gradient is 1 in 300 between Benares Cantonment and Lucknow; 1 in 250 between Moradabad and Delhi; 1 in 200 between Lhaksar and Hardwar, 1 in 100 on the Kotdwara branch; 1 in 75 on the Raiwala-Rikhikesh branch and 1 in 500 on the Dalmau-Dariapur branch; 1 in 400 on the Unao-Madhoganj branch, Lucknow-Sultanpur-Zafarabad Branch and Chandpur-Muazzampur Narain branch.

Contracts -

- Nil. All the contracts between the Secretary of State and the Railway Company were determined on the 31st December 1924 and the line was brought under direct state management with effect from the 1st January 1925. The Oudh and Rohilkhand railway was amalgamated with the East Indian railway with effect from the 1st July 1925.
 - Rates and fares.—Certain maxima and minima have been fixed by the Government, between the limits of which the Railway Administration can vary the rates and fares quoted for goods and coaching traffic.

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(a) East Indian railway (5' 6" gauge)—concld.

Statistics of working.—(Those for 1879 will be found in Appendix 88 to the Railway Administration Report for 1907)

- Statistics of working.—Index of North Mass statistics in Appendix to Color in Index (1) From 1905, the figures of South Bihar Railway [excepting route mileage and capital outlay] which is shown separately in table (c) are included.

 (ii) From 1925-26 the figures of Outh and Rohikhand Railway (including Cawapore-Burhwal Link 3' 3!" gauge) are included. The figures of Outh and Rohikhand Railway from the date of its opening to 1924-25 are shown in table (c).

 (iii) The amount of sterling liabilities involved in the purchase of railways included in the figures shown in column 3 below against 1933-34 and 1934-35, has been converted at he rates of exchange ruling at the time when the liabilities came into being, as against the statutory rate of exchange i.e., 1s.-6d. previously adopted. From the year 1935-36 onwards the same amount has been reconverted at the latter rate.

Year.	Mileage open at end of each year.	Total capital outlay including suspense, to end of each year, i.e. outlay on (i) lines open, and (if) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Payment to make up guarant- guarant- eed in- terest on the paid up capi- tal of the A. K. B. K. and F. I. rlys. and of rental to S. B. rly.	Percentage of net earnings on total capital outlay, or capital at charge, given in column (3).	Payment to make up guaranteed interest on the pald up capital of the A. K., B. K., and F. I. railways.	Interest.	Annuity.	Company's share of surplus profits (based on terms of contract, attributable to each year.	Gain to the State pertaining to each year.	Earn- ings per mile per week.	Pro- portion of ex- pen- ses to earn- ings.
1	Miles.			Rs.	Rs.	ļ	8		10	11	12	13	14
1880	1,504 -25 1,500 -75 1,500 -76 1,500 -76 1,500 -46 1,514 -90 1,514 -80 1,513 -36 1,513 -36 1,513 -36 1,525 -44 1,525	165. 34,161,2052 34,67,27,455 34,83,42,743 35,60,20,413 35,50,42,570 35,61,22,471 35,50,42,570 35,58,32,469 35,68,32,469 35,98,56,817 36,00,54,709 36,94,69,170 36,51,62,37 37,76,50,26 37,50,50,50,50,50,50,50,50,50,50,50,50,50,	4,29,45,116 4,541,1472 4,71,17,594 4,94,67,085 4,38,38,714 4,03,68,589 4,60,70,853 4,60,65,661 4,54,96,902 4,43,39,355 4,94,95,230 4,83,55,103 65,08,44,654 65,40,608,465 65,20,80,465 65,41,50,866 65,40,608,142 65,20,80,465 67,38,71,644 67,738,71,644 67,738,71,544 7,50,47,139 8,02,50,101 8,11,20,807 8,23,51,108 8,23,51,108 8,23,51,108 8,23,51,108 8,23,51,108 8,23,51,108	2,84,66,874 3,06,38,827 2,94,16,386 3,08,77,601 2,70,76,204 2,70,75,205 3,00,27,370 2,91,14,970 2,91,14,970 2,91,14,970 3,50,54,312 3,50,54,312 4,40,34,70 4,21,04 4,21,04 4,21,04 4,21,04 4,21,04 4,21,04		8:33 8:44 8:44 8:45 8:35 8:46 8:35 8:46 8:20 9:51 9:71 9:71 9:71 9:71 9:71 9:71 9:71 9:7		Rs. 41,96,03,988 41,96,03,988 31,83,027,402 31,83,151 34,712,093 37,814,444 38,46,880 38,60,374 37,33,297 37,25,764 41,20,880 41,37,988 45,73,671 40,00,562 48,20,238 45,73,671 46,00,562 48,20,238 45,74,63,702 46,514 54,63,902 74,40,371 80,21,978 86,73,680 93,88,271 1,01,66,294 1,102,678,685	Ra. 1,72,92,000 1,75,10,837 1,77,35,384 1,79,65,714 1,89,50,137 1,92,13,333 2,03,43,530 2,03,60,000 2,03,43,530 2,04,60,000 2,03,44,530 2,34,46,74 2,64,47,64 2,34,46,764 2,34,46,764 2,34,46,764 2,34,46,764 2,34,46,764 2,32,64,633 2,21,46,516 2,16,60,963 2,16,62,360 2,16,15,000	Rs. 17,72,690 20,63,667 17,88,073 19,99,731 11,72,323 16,20,502 14,97,270 11,64,603 8,31,347 10,37,010 17,04,125 124,87,332 23,87,763 123,87,763 124,20,763 18,00,020 18,00,104 18,51,450 16,10,965 18,24,961 16,10,965 18,24,961 17,74,310 14,55,887 11,36,194 19,01,703 21,40,374 25,05,359	Rs. 70,90,766 82,55,408 71,52,291 70,93,92,1 46,89,22,1 46,89,22,1 46,89,23,105 63,49,039 46,68,773 83,25,386 41,48,078 83,55,041 08,16,490 61,59,068 67,30,847 49,81,932 95,51,053 1,56,32,623 1,56,32,623 1,56,49,401 1,58,29,401 1,58,29,401 1,58,29,401 1,58,29,401 1,58,29,401 1,58,29,401 1,58,29,401 1,58,49,401 1,58,49,401 1,58,49,401 1,58,49,401 1,58,49,401 1,58,49,401 1,58,49,401 1,58,49,401 1,58,49,401 1,58,49,401 1,58,49,401 1,58,49,401 1,58,49,401 1,58,49,401 1,58,49,401 1,58,49,401 1,58,49,401 1,58,49,58,49,401 1,58,49,58,49,401 1,58,49,58,49,401 1,58,49,58,49,401 1,58,49,58,49,401 1,58,49,58,49,401 1,58,49,58,58,49,401 1,58,49,58,58,49,401 1,58,49,58,58,49,401 1,58,49,58,58,49,401 1,58,49,58,58,49,401 1,58,49,58,58,49,401 1,58,49,58,58,49,401 1,58,49,58,58,49,401 1,58,49,58,58,49,401 1,58,49,58,58,49,401 1,58,49,58,58,49,401 1,58,49,401 1,58,49,401 1,5	Rs. 549 578 601 578 630 630 558 589 591 557 533 567 557 584 602 703 703 672 768 775 682 775 682 775 682 775 682 775 682 775 682 775 682 775 682 775 682 775 683 683 684 685 687 705 705 705 705 705 705 705 705 705 70	\$3.71 \$2:557 \$37:58 \$38:29 \$35
of 1913 1913-14 1914-15 1915-16 1916-17 1917-18 1918-19 1919-20 1920-21 1922-23 1923-24 1923-24 1923-27 1922-27 1922-27 1922-27 1927-28 1923-29 1929-30 1931-32 1933-33 1933-33 1935-36	2.329 -40 2.424 -20 2.445 -20 2.445 -20 2.445 -20 9.2463 -77 2.460 -87 2.450 -10 2.478 -93 2.485 -09 2.485 -09 2.485 -09 3.817 -19 3.853 -51 4.055 -59 4.055 -59 4.285 -50 4.285 -50 4.285 -37 4.283 -37	\$4,01,04,34,170 70,52,05,287 71,50,37,347 72,11,24,810 72,16,13,786 72,16,18,558 \$6,76,18,67,94 \$9,06,18,437 \$9,313,48,000 \$9,18,71,478 \$1,29,54,99,531 \$1,40,17,61,488 \$1,29,54,99,531 \$1,41,71,761,488 \$1,29,54,99,531 \$1,41,91,761,488 \$1,42,65,83,316 \$1,42,65,83,236 \$1,42,65,85,926 \$1,44,63,91,440 \$1,46,03,07,574 \$1,46,38,91,440 \$1,46,03,07,574 \$1,46,60,32,354	19,09,08,478 19,72,45,417 20,69,26,832 20,42,78,101 19,67,99,317		5,86,280 6,09,996 5,99,101 5,61,031 25,67,543 45,67,543 48,14,027	2:33 9:20 8:95 8:95 8:95 10:64 12:06 12:06 12:06 12:06 14:00 14:01 15:01 16:01	53,066 60,008 1,12,409 44,003 83,735 1,38,546 54,025 27,476 46,332 1,00,601 1,05,088 1,31,003 2,08,215 1,59,526 1,67,509	32,55,583 1,85,11,326 1,48,99,653 1,60,07,653 1,62,01,010 1,63,44,008 1,64,60,303 1,66,71,713 2,03,13,492 2,03,13,492 2,03,13,492 2,03,13,492 2,03,13,492 2,03,13,492 2,03,13,492 2,03,13,492 2,03,13,492 2,03,13,492 2,03,13,492 2,03,13,492 2,03,13,492 2,03,13,492 2,03,10,600 6,32,71,147 6,17,30,73 6,17,30 6,1	54,03,750 \$16,15,000 \$16,15,000 \$16,15,000 \$16,15,000 \$16,15,000 \$2,16,15,000 \$2,16,15,000 \$2,16,15,000 \$1,72,92,000 \$	7,01,468 6,24,743	56,78,085 2,37,09,564 2,36,60,074 2,36,10,323 2,02,50,413 3,55,29,712 3,55,29,712 3,17,42,289 3,17,42,289 1,02,33,205 2,94,58,330 1,02,33,205 2,99,15,114 2,53,13,430 3,27,80,234 2,53,13,430 3,27,80,234 2,86,10,600 1,41,14,851 8,20,856 2,53,33,434 47,19,126 1,02,05,138 1,02,05,138 1,74,86,805	814 7896 800 829 829 1,020 1,020 1,040 1,025 1,231 1,231 1,231 1,231 1,251 1,025 842 842 874	41.77 39.816 39.19 35.94 34.182 34.182 34.182 34.25 60.25 60.25 60.25 60.25 60.25 60.30 60

- a Interest in 1880 includes annuity charges which cannot be separated.

 Includes arrear credits for substantial improvements, its. 10,49,127.

 includes arrear credits for substantial improvements, its. 10,49,127.

 includes the annual rental pald to the South Blain Radiusy Company and other charges deducted from the Palmer's Trust Estate.

 Includes the annual rental pald to the South Blain Radiusy Company and other charges deducted from met earnings.

 Includes arrear credits for substantial improvements, its. 20, 19, 762.

 The decrease is due to the dismantling of 31: 55 miles, Bhacalpur to Mandar Hill, of the Bhacalpur-Bausi branch.

 Including prenia paid by Government in the purchase of the line.

 Including prenia paid by Government in the purchase of the line.

 Including prenia paid by Government in the purchase of the line.

 Including prenia paid by Government in the purchase of the line.

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 Including prenia paid by Government in the purchase of the line.

 Including prenia paid by Government in the purchase of the line.

 Including prenia paid by Government in the purchase of the line.

 Includes outher was permanently debited with the balance of capital liability outstanding on 31st March 10241n respect of the purchase of the railway under redemption by annuities and Sinking Fund on which full interest is charged in column 8. The figures prior to 102:-25 are converted at the contract rade.

 Includes outher of Res. 14,544 on account of capital expenditure on Delhi-Umbilla-Raha Railway transferred to North Western Railway without in annuity of the purchase of the purcha This report of the Anappur-Chirimiri Section as under —

 Year.

 Year.

 Year.

 1934-35
 1935-36
 1935-36
 1935-37

 Includes credits of Rs. 54,68,807 on alc of the difference between the original rupee equivalent and the actual amount of rupees spent on the discharge of 3½ million debentures, which were taken over as state liability in 1924-25 when the E. I. Railway was brought under state-management.

 Includes the amount credited to E. I. Railway by the B. N. Railway in respect of the Anuppur-Chirimiri Section as under —

 Rs.

 1935-36
 1,83,397
 1936-37
 2,61,155

(b) Hardwar Dehra railway (5' 6" gauge)-

Managing Agents.—Messes. Gillanders Arbuthnot and Co., Calcutta.

Date of registration of the Company.—12th March 1897.

Progress in opening-

	Section of railway.										Date of opening	Miles.	To3al.
Hardwar to Dehra .	•	•	•	•	•	•	•				1-3-00	32·01	32.04

Details of construction-

Permanent-way.—The permanent-way consists of 75-lb. flat-footed I. S. R. steel rails on deodar, sal and chir wood and Fowler box sleepers.

Ballast.—The line is ballasted throughout with stone.

Fencing.-The line is fenced throughout.

Curves.—There are no curves with a radius of less than 1,000 feet.

Gradients.-The ruling gradient is 1 in 75.

Agreement and contract-

Agreement, dated the 6th January 1897, between the Secretary of State and Messrs. Gillanders, Arbuthnot and Company of Calcuta (called "the Promoters"), as to the grant of a provisional concession for the construction of the Hardwar-Dehra Branch railway.

Contract, dated the 26th March 1897 (called the scheduled contract), between the Secretary of State and the Hardwar-Dehra Railway Company, as to the construction, maintenance and working of the Hardwar-Dehra Branch railway.

Main provisions of agreement and contract—

- (i) Land.—Provided by the Government free of cost to the Company.
- (ii) Government aid.—The line is the property of the Hardwar-Dehra Branch Railway Company, and was constructed, from funds supplied by the Company, by the Government, who maintain, stock and work it through the agency of the East Indian railway.

The Government guarantee interest at 3 per cent. per annum on the capital expenditure, and also undertake to allow to the Company, in any year in which it does not receive the minimum dividend of 3 per cent. from the earnings of the line, the sum of Rs. 3,600 for such year for or towards management and office expenses.

- (iii) Terms of working.—For maintenance, provision of rolling-stock and working, the East Indian Railway Administration retains 50 per cent. of the gross earnings of the Branch line.
- (iv) Distribution of profits.—The surplus profits in each year remaining after repayment to the Government of the amount of the guaranteed interest for the year are to be divided equally between the Government and the Company.
- (v) Rates and fares.—Certain maxima and minima have been fixed by the Government, between the limits of which the working agency (viz., the East Indian railway) can vary the rates and fares quoted for goods and coaching traffic.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, high Government officials and Government stores.— Nil.
 - (b) Government bullion and coin, and the persons in charge thereof.—
- (vii) Power of the Government to determine contract.—The Government may determine the contract, on twelve months' notice, either on the 31st December 1919 or on the 31st December in the last year of any subsequent period of ten years, by paying to the Company a sum equal to 25 times the average yearly net earnings of the Company during the last preceding three years, provided that

(b) Hardwar-Dehra railway (5' 6" gauge)—concld.

Main provisions of agreement and contract—concid.

such sum shall not exceed by more than 20 per cent., nor is less than the total capital expenditure.

- N. B.—It has been decided not to give notice of purchase of the Railway on 31st December 1929.
- (viii) Power of the Company to surrender contract .- Nil.
- (ix) Term of contract.—None specified.

Statistics of working-

Miles	Year.	open at end of each	outlay, includ- ing suspense, to end of each year, i.e., out- lay on (i) lines open, and (ii) lines partly or wholly under			age of net earnings on total capital outlay given in column.	Į.	share of surplus profits (based on terms of contract) attributable to each	to the State pertaining to each	ings per mile per	portion of expen- ses to earn-	Remarks.
1600 32-04 25.67,003 1,00,485 80,243 3-13 115 50-00 100 15	1	2	3	4	5	6	7	8	9	10	11	12
1601 32-04 28,12,300 2,13,456 1,06,728 3-80 84,222 11,254 +11,254 128 60-00 1000 32-04 29,44,641 2,62,718 1,13,150 4-62 85,020 23,050 +23,050 168 60-00 1000 32-04 29,12,962 2,03,012 1,13,150 4-62 86,777 22,615 +22,615 168 60-00 1000 32-04 29,24,984 3,34,110 1,67,055 5-71 87,688 30,683 +38,684 201 60-00 1000 32-04 29,24,984 3,34,110 1,67,055 5-71 87,688 30,683 +38,684 201 60-00 1000 32-04 29,24,984 3,34,110 1,67,055 5-71 87,688 30,683 +38,684 201 60-00 1000 32-04 29,44,092 3,76,334 1,85,107 6-30 88,185 40,901 +40,901 220 60-00 1000 32-04 29,65,387 3,68,684 1,48,121 6-21 88,734 47,780 +47,780 221 60-00 1000 32-04 29,65,387 3,68,684 1,48,121 6-21 88,734 47,780 +47,780 221 60-00 1001 32-04 30,10,110 43,1101 2,15,681 7-10 90,017 62,782 +62,782 205 50-00 1011 33-04 30,10,110 43,1101 2,15,681 7-10 90,017 62,782 +62,782 205 50-00 1013-14 32-04 30,18,760 1,21,303 60,681 2-01 22,611 10,005 +10,005 201 50-00 1013-14 32-04 30,26,684 4,66,600 2,33,233 7-71 90,749 71,525 71,1252 280 50-00 1016-17 32-04 30,48,565 5,43,882 2,77,601 5-16 90,074 71,525 71,156 30 60-00 1016-17 32-04 30,48,565 5,43,882 2,77,601 5-16 90,074 71,525 71,156,53 300 60-00 1010-00 32-04 30,48,565 5,43,882 2,77,601 5-16 90,074 71,525 71,156,53 300 60-00 1010-00 32-04 30,48,565 5,43,882 2,77,601 5-16 90,074 71,525 71,156,53 300 60-00 1010-00 32-04 30,68,501 7,88,764 3,60,693 7,88,763 11-02 20,555 1,88,464 1,44,724 1,44,723 482 51-30 1010-00 32-04 30,68,501 7,88,764 3,60,693 3,00,693 4,60,693 3,60,693 3,60,693 3,60,693 3,60,693 3,60,693 3,60,693 3,60,693 3,60,693 3,60,693 3,60,693 3,60,693 3,60,693 3,60,693 3,60,693 3,60,		Milos.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	Rs.		
1002 32-04 29,13,301 2,13,456 1,00,728 3-90 89,222 11,224 +11,224 128 50-00 1003 32-04 29,34,641 2,62,719 1,31,800 4-62 85,200 23,000 +22,001 188 50-00 1004 32-04 20,12,992 2,03,612 1,31,800 4-62 85,200 23,000 +22,001 188 50-00 1005 32-04 20,00,909 3,13,470 1,66,738 6-37 87,600 34,674 +34,674 188 50-00 1006 32-04 20,20,909 3,13,470 1,66,738 6-37 87,600 34,674 +34,674 188 50-00 1007 32-04 20,27,942 3,86,531 1,93,283 6-00 87,822 62,730 +62,731 232 50-00 1008 32-04 20,45,527 3,08,624 1,84,121 6-21 88,734 47,780 +47,789 221 60-00 1009 32-04 20,85,527 3,08,624 1,84,121 6-21 88,734 47,780 +47,789 221 60-00 1010 32-04 20,85,527 3,08,624 1,84,121 6-21 88,734 47,780 +47,789 221 60-00 1011 33-04 30,10,716 43,116 2,16,831 7-16 90,017 62,782 +62,782 290 60-00 1012 32-04 30,82,601 4,85,340 2,26,221 6-77 80,648 66,337 +66,330 243 60-00 1013 33-04 30,18,760 1,21,302 60,651 2-01 22,641 10,005 +10,002 201 60-00 1014-16 32-04 30,25,601 4,85,340 2,23,253 7-71 90,749 71,252 +71,252 280 60-00 1014-17 32-04 30,25,601 4,66,302 2,33,253 7-71 90,749 71,252 +71,252 280 60-00 1010-17 32-04 30,43,57 6,46,330 2,33,052 2,46,778 8-41 90,825 81,926 +81,027 306 60-00 1010-17 32-04 30,43,651 6,65,362 2,73,052 10-83 91,450 11,9658 +1,19,653 337 60-00 1010-17 32-04 30,43,651 6,65,362 2,73,09 5-16 90,021 93,335 493,335 333 60-00 1012-17 32-04 30,43,63 6,40,300 6,22,55 12-83 0,1,50 1,2,6564 1,16,633 605 60-00 1012-20 32-04 30,63,603 6,40,400 6,00,300 6,40,300 6,40,300 6,40,300 6,40,300 6,40,300 6,40,300 6,40,300 6,40,300 6,40,300 6,40,300 6,40,300 6,40,300 6,40,300 6,40,300 6,40,300	1900	32.04	25 67,093	1,60,485	80,243	3.13				115	50-00	Interest up to
1903	1501	32.04	28,12,301	2,13,456	1,06,728	3.80	84,222	11,254	+11,254	128	50.00	ed to capital
1004 32-04 29,44,641 26,2719 1,31,800 4-62 85,270 22,050 1-23,050 1-88 60-00 1-20,100	1902	32.04	29,36,486	2,52,485	1,26,242	4.45	85,048	20,597	4-29,597	152	50.00	ings of 1900
1905	1903	32.04	28,44,541	2,62,719	1,31,360	4.62	85,260	23,050	+23,050	158	50.00	to capital in
1000	1904	32.04	29,12,992	2,63,612	1,31,806	4.52	86,777	22,515	+22,514	158	50.00	
1007 32-04 20,27,042 3,80,535 1,93,283 6-60 87.822 62,730 +52,731 232 60-00 1008 32-04 22,44,092 3,76,334 1,88,167 6-39 88,185 49,901 +49,901 226 60-00 1000 32-04 20,85,335 3,68,624 1,84,312 6-21 88,734 47,780 +47,789 221 60-00 1010 32-04 20,85,633 4,04,443 2,02,221 0-77 89,548 56,337 +66,336 243 50-00 1011 33-04 30,10,716 4,31,161 2,15,581 7-16 90,017 62,782 +66,336 243 50-00 1011 33-04 30,10,716 4,31,161 2,15,581 7-16 90,017 62,782 +66,336 243 50-00 1012 114 32-04 30,18,164 4,40,209 2,20,149 7-29 90,541 64,804 +04,804 264 50-00 1013 33-04 30,18,760 1,21,302 60,681 2-01 22,641 10,005 +119,005 291 50-00 1013-14 82-04 30,26,684 4,66,606 2,33,253 7-71 90,749 71,252 +71,252 280 50-00 1015-16 32-04 30,27,840 5,09,355 2,64,678 8-41 90,825 81,929 +81,027 300 50-00 1016-17 32-04 30,54,565 5,64,882 2,77,601 5-15 91,021 93,335 +93,335 333 50-00 1016-17 32-04 30,63,615 6,61,604 3,30,752 10-83 91,436 11,96,68 +1,19,658 397 50-00 1919-20 32-04 30,63,615 6,61,604 3,30,752 10-83 91,436 11,96,68 +1,19,658 397 50-00 1919-20 32-04 30,63,615 6,61,604 3,30,752 10-83 91,436 11,96,68 +1,19,658 397 50-00 1919-20 32-04 30,63,615 6,61,604 3,30,752 10-83 91,436 11,96,68 +1,19,658 397 50-00 1919-20 32-04 30,63,615 6,61,604 3,30,752 10-83 91,436 11,96,68 +1,19,658 397 50-00 1919-20 32-04 30,63,615 6,01,604 3,30,752 10-83 91,436 11,96,68 +1,19,658 397 50-00 1922-23 33-04 31,35,748 8,04,530 4,02,265 12-83 30,719 1,54,273 41,54,273 483 50-00 1922-23 33-04 32,65,116 8,02,428 30,02,87 12-02 1,00,840 1,44,724 1,44,723 482 51-36 1924-25 32-04 33,30,303 8,446 3,240 11-20 12-20 1,00,840 1,44,724 1,44,723 482 51-36 1924-25 32-04 33,30,303 8,303 11 1.2 66 1,03,176 1,62,407 +1,66,639 605 61-23 1924-25 32-04 33,88,181 7,61,006 3,84,240 11-34 1,03,89 1,44,740 +1,14,1,070 475 50-00 1123-32 32-04 33,46,310 7,93,803 38,0391 11.42 11,06,88 1,14,03,02 +1,43,000 40 50-00 1123-3 32-04 34,68,127 7,38,844 3,60,021 11.02 10,03,88 11,14,14,15,30 40 50-00 1123-3 32-04 34,68,127 7,38,844 3,60,021 11.02 10,04 11,03,889 11,144,143,000 40 50-00 1123-3 3 32-04 34,68,1	1905	32.04	20,20,650	3,13,476	1,56,738	5.37	87,590	34,574	+34,574	188	50.00	
1008 32-04 20,44,002 3,76,334 1,88,167 6-30 88,185 40,001 +40,001 220 60-00 1000 32-04 20,65,357 3,68,624 1,84,312 6-21 88,734 47,780 +47,780 221 60-00 1010 32-04 20,85,633 4,04,443 2,02,221 0-77 80,648 66,337 +66,336 £43 60-00 1011 33-04 30,10,716 4,31,161 2,16,561 7-16 00,017 62,782 +62,782 £56 0-00 1011 33-04 30,18,700 1,21,302 60,651 7-16 00,017 62,782 +62,782 £56 0-00 1013 32-04 30,18,700 1,21,302 60,651 2-01 22,641 10,005 +10,005 201 50-00 1013-14 32-04 30,25,001 4,85,346 2,42,673 8-03 00,621 76,026 +76,026 201 50-00 1014-15 32-04 30,25,601 4,85,346 2,42,673 8-03 00,621 76,026 +76,026 201 50-00 1016-16 32-04 30,27,840 5.09,355 2,64,078 8-41 00,825 81,928 +81,927 306 60-00 1016-16 32-04 30,34,265 5,54,382 2,77,601 5-15 01,021 93,335 +83,335 333 60-00 1017-18 32-04 30,40,387 5,46,330 2,73,165 8-98 91,160 00,998 +00,099 328 60-00 1018-10 32-04 30,63,615 6,61,604 3,30,762 10-83 91,436 11,96,58 +1,19,658 307 50-00 1019-20 32-04 30,08,303 6,04,37 3,40,710 11-80 91,025 12,58,97 +1,28,897 420 50-00 1019-20 32-04 30,08,303 6,04,37 3,40,710 11-80 91,025 12,58,97 +1,28,897 420 50-00 1019-22 32-04 30,08,303 6,04,37 3,40,710 11-80 91,025 12,58,97 +1,28,807 420 50-00 1022-23 32-04 32,45,716 8,02,428 3,00,287 12-02 1,00,840 1,44,724 +1,44,723 483 50-00 1022-23 32-04 32,45,716 8,02,428 3,00,287 12-02 1,00,840 1,44,724 +1,44,723 483 50-00 1022-23 32-04 32,45,716 8,02,428 3,00,287 12-02 1,00,840 1,44,724 +1,44,723 482 51-36 1024-25 32-04 33,03,03 6,40 18 4,62,03 13-20 1,05,568 1,55,664 +1,65,663 500 51-23 1024-25 32-04 33,03,03 6,40 18 4,62,03 13-20 1,05,568 1,43,002 +1,44,724 +1,44,723 482 51-36 1024-25 32-04 33,03,03 6,40 18 4,62,03 13-20 1,05,568 1,45,400 +1,144,000 475 50-00 1024-25 32-04 33,03,03 0,40 18 4,62,03 13-20 1,05,568 1,43,000 40 14-4,144,000 40 50-00 1025-31 32-04 33,03,03 0,40 18 4,62,03 13-00 1,05,568 1,14,400 +1,14,400 405 50-00 1025-31 32-04 33,03,03 1,40,14 12-20 1,00,966 1,03,04 14,14,14,14 14,14 14,14 14,14 14,14 14,14 14,14 14,14 14,14 14,14 14,14 14,14 14,14 14,14 14,14 14,14 14,14 14,14 14,14 14,14	1906	32.04	29,24,284	3,34,110	1,67,055	5.71	87,688	39,683	+39,684	201	50.00	
1000 32-04 20,65,387 3,68,624 1,84,312 6-21 88,734 47,789 +47,789 221 60-00 1010 22-04 20,85,633 4,04,443 2,02,221 6-77 80,548 66,337 +66,336 243 50-00 1011 33-04 30,10,716 4,31,161 2,15,581 7-16 90,017 62,782 +62,782 259 50-00 1012 32-04 30,18,164 4,02,90 2,20,140 7-29 90,641 64,804 +64,804 264 50-00 1013 32-01 30,18,700 1,21,302 60,651 2-01 22,641 10,005 +10,005 201 50-00 1013-14 32-04 30,22,601 4,85,346 2,42,673 8-03 90,621 76,026 470,026 201 50-00 1014-16 32-04 30,26,684 4,66,606 2,33,253 7-71 90,749 71,252 +71,262 280 50-00 1016-17 32-04 30,34,265 5,64,382 2,77,601 5-15 91,021 93,335 +93,335 333 60-00 1016-17 32-04 30,40,857 5,46,330 2,73,165 8-08 91,169 90,093 +00,993 323 50-00 1019-20 32-04 30,09,303 6,99,437 3,49,719 11-39 91,925 1,28,897 +1,28,897 40 60-00 1019-20 32-04 30,09,303 6,99,437 3,49,719 11-39 91,925 1,28,897 +1,28,897 420 60-00 1012-12 32-04 30,08,804 7,38,764 2,69,332 11-08 30,719 11-39 11,94,54 14,47,23 482 60-00 1012-12 32-04 30,09,303 6,99,437 3,49,719 11-39 91,925 1,28,897 +1,28,897 40 60-00 1012-12 32-04 30,08,804 7,38,764 2,69,332 11-08 30,719 11-39 11,94,54 14,47,23 483 50-00 1012-12 32-04 30,08,804 7,38,764 2,69,332 11-08 30,719 11-39 11,94,54 14,47,23 483 50-00 1012-12 32-04 30,08,804 7,38,764 2,69,332 11-08 30,719 11-39 11,94,54 14,47,23 483 50-00 1012-12 32-04 30,54,54 18,6	1907	32.04	20,27,942	3,88,535	1,93,283	6.60	87.822	52,730	+52,731	232	50.00	
1910	1908	32-04) · . ·	3,76,334	1,88,167	6.39	88,185	49,991	+49,991	226	50.00	
1911 33 - 04 30,10,716 4,31,161 2,15,581 7 - 16 90,017 62,782 +62,782 258 50 - 00 1912 32 - 04 30,18,164 4,40,200 2,20,140 7 - 29 90,541 64,804 +64,804 264 50 - 00 1913 32 - 04 30,18,790 1,21,302 60,651 2 - 01 22,641 10,005 +10,005 291 50 - 00 1913 32 - 04 30,22,601 4,85,346 2,42,673 8 - 03 90,621 76,026 +76,026 291 50 - 00 1914 - 15 32 - 04 30,22,684 4,66,506 2,33,253 7 - 71 90,749 71,252 +71,252 280 50 - 00 1915 - 16 32 - 04 30,23,465 5,54,382 2,77,003 8 - 16 90,825 81,826 +81,027 306 50 - 00 1916 - 17 32 - 04 30,40,387 5,46,330 2,73,168 8 - 80 91,169 90,993 +90,993 328 50 - 00 1918 - 10 32 - 04 30,63,615 6,61,504 3,30,752 10 - 83 91,436 1,19,658 +1,19,658 397 80 - 00 1919 - 20 32 - 04 30,93,33 6,99,437 3,09,710 11 - 39 91,925 1,28,897 +1,28,897 420 50 - 00 1920 - 21 32 - 04 30,98,840 7,38,764 3,09,382 11 - 02 2,550 1,38,416 +1,38,416 443 50 - 00 1922 - 23 32 - 04 32,57,16 8,02,428 3,00,287 12 - 65 1,00,840 1,44,724 +1,44,723 482 61 - 38 1923 - 24 32 - 04 32,65,712 8,46,407 4,12,311 12 - 66 1,03,175 1,62,407 +1,66,639 605 61 - 23 1924 - 25 32 - 04 33,36,363 3,46 18 4,62,038 13 - 90 1,05,981 1,74,400 +1,81,590 668 51 - 16 1925 - 28 32 - 04 33,38,818 7,03,083 3,40,018 1,22 1,00,966 1,66,466 +1,65,732 531 51 - 16 1925 - 29 32 - 04 33,48,181 7,01,008 3,84,309 11 - 34 1,10,367 1,26,704 +1,43,050 406 50 - 00 1923 - 3 32 - 04 34,65,703 7,98,503 3,89,391 11 - 42 1,16,614 1,30,127 +1,43,050 406 50 - 00 1923 - 3 32 - 04 34,65,703 7,98,503 38,939 11 - 14 1,10,689 1,10,447 +1,43,050 406 50 - 00 1923 - 3 32 - 04 34,65,207 7,85,844 3,67,022 10 - 64 1,08,654 1,16,642 +1,44,01,00 42 50 - 00 1933 -		32-04	29,65,357	3,68,624		6-21	88,734	47,789	+47,789	221	50.00	
1012		-	29,85,633	4,04,443	2,02,221	6.77	89,548	56,337	+56,336	243	50.00	
Telta Telt			30,10,716	1		1		•	+62,782	259	50.00	i
1013-14	lst gr. of			1					+64,804	264	50.00	
1914-15			,				1			- 1		
1016-16		1					{	1	+76,026	291	1	
1016-17 32-04 30,34,255 5,54,382 2,77,691 b-15 91,021 93,335 +93,335 333 50-00 1917-18 32-04 30,40,387 5,46,330 2,73,165 8-08 91,169 90,098 +90,098 328 50-00 1918-10 32-04 30,63,615 6,61,504 3,30,762 10-83 91,436 1,10,658 +1,10,658 307 50-00 1919-20 32-04 30,69,303 6,99,437 3,49,719 11-39 91,025 1,28,897 +1,28,897 420 50-00 1920-21 32-04 30,98,40 7,38,764 3,69,382 11-02 92,650 1,38,416 443 50-00 1921-22 33-04 31,35,748 8,04,530 4,02,265 12-83 93,719 1,64,273 +1,54,273 483 50-00 1922-23 32-04 32,10,986 8,33,868 4,06,162 12-65 94,855 1,55,654 +1,65,653 600 51-29 1923-24 32-04 32,45,716 8,02,428 3,00,287 12-02 1,00,840 1,44,724 +1,44,723 482 51-36 1924-25 32-04 32,56,712 8,45,497 4,12,311 12-66 1,03,175 1,52,407 +1,66,639 505 51-23 1925-26 32-04 33,03,093 9,40 018 4,62,038 13-90 1,05,958 1,74,490 +1,81,590 668 51-16 1926-27 32-04 33,03,093 9,40 018 4,62,038 13-90 1,05,958 1,74,490 +1,81,590 668 51-16 1927-28 32-04 33,06,211 8,81,063 4,32,144 12-72 1,00,056 1,56,456 +1,65,722 531 51-16 1928-29 32-04 33,88,181 7,01,006 3,84,240 11-34 1,16,367 1,26,794 +1,40,790 475 50-00 1929-30 32-04 34,08,703 7,98,903 3,89,391 11.42 1,16,614 1,30,127 +1,43,050 480 60-00 1931-32 32-04 34,63,410 7,21,385 3,60,609 10-41 1,03,889 1,16,447 +1,28,402 433 60-00 1931-32 32-04 34,58,127 7,35,844 3,67,022 10-64 1,03,054 1,16,342 +1,31,967 442 60-00 1931-32 32-04 34,58,127 7,35,844 3,67,022 10-64 1,03,054 1,16,342 +1,31,967 442 60-00 1933-34 32-04 34,62,011 7,84,344 3,92,172 11-20 1,04,175 1,43,999 +1,43,098 471 60-00 1933-34 32-04 35,63,637 7,68,807 3,81,303 10-05 1,04,676 1,13,699 +1,43,098 471 60-00 1933-34 32-04 35,63,692 7,68,605 3,81,303 10-05 1,04,676 1,13,699 +1,43,098 471 60-00 1933-34 32-04 35,63,637 7,68,807 3,83,303 10-05 1,04,676 1,13,699 +1,43,098 471 60-00 1934-35 32-04 35,63,637 7,68,807 3,63,63 10-05 1,04,676 1,13,699 +1,43,098 471 60-00		1 1					1	1	+71,252	ì	i	
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1918-19 32-04 30,63,615 6,61,504 3,30,752 10-83 91,436 1,19,658 +1,19,658 307 50-00 1919-20 32-04 30,09,303 6,99,437 3,49,710 11-39 91,925 1,28,897 +1,28,897 420 50-00 1920.21 32-04 30,98,840 7,38,764 3,69,382 11-02 92,550 1,38,416 +1,38,416 443 50-00 1921.22 33-04 31,35,748 8,04,530 4,02,265 12-83 93,719 1,64,273 +1,64,273 483 50-00 1922.23 32-04 32,10,866 8,33,868 4,06,162 12-65 94,855 1,55,654 +1,65,653 600 51-29 1923.24 32-04 32,45,716 8,02,428 3,00,287 12-02 1,00,840 1,44,724 +1,44,723 482 51-36 1924-25 32-04 32,66,712 8,45,497 4,12,311 12-66 1,03,175 1,52,407 +1,56,639 505 51-23 1925-26 32-04 33,03,093 9,40 018 4,62,038 13-09 1,05,958 1,74,400 +1,81,500 568 51-16 1926-27 32-04 33,96,211 8,84,063 4,32,144 12-72 1,09,056 1,56,466 +1,65,732 531 51-16 1928-29 32-04 33,98,181 7,01,006 3,84,240 11-34 1,16,337 1,26,704 +1,41,079 475 50-00 1920-30 32-04 34,08,703 7,98,803 3,80,301 11.42 1,16,614 1,30,127 +1,43,050 480 50-00 1930-31 32-04 34,65,258 7,53,254 3,76,627 10-93 1,25,220 94,942 +1,46,130 452 50-00 1931-32 32-04 34,65,127 7,58,844 3,67,022 10-64 1,03,054 1,16,447 +1,28,402 433 50-00 1932-33 32-04 34,68,127 7,58,844 3,67,022 10-64 1,03,054 1,16,447 +1,28,402 433 50-00 1933-34 32-04 34,68,107 7,84,344 3,67,022 10-64 1,03,054 1,16,342 +1,31,967 442 50-00 1933-34 32-04 34,68,107 7,84,344 3,67,022 10-64 1,03,054 1,16,342 +1,31,967 442 50-00 1933-34 32-04 34,68,107 7,84,344 3,67,022 10-64 1,03,054 1,16,342 +1,31,967 442 50-00 1934-35 32-04 35,60,367 7,51,877 3,638 10-65 10,04,694 1,33,690 +1,33,699 460 50-00 1934-35 32-04 35,60,367 7,51,877 3,76,838 10-65 10,04,694 1,34,695 +1,34,599 440 60-00 9		1					(' ([ļ		
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	1934-35 · 1935-36 · 1936-37 ·	32-04	35,60,367	7,51,877	3,75,939	10.5G	1.06.750	1,34,695	+1,34,594	449	50.00	

(c) South Bihar railway (5' 6" gauge)—

Chairman.—LIEUT.-Col. H. Bonham-Carter, R.E. Secretary.—Percy A. Cory, Esq., O.B.E. Offices.—25, Buckingham Palace Road, London, S. W. 1.

Date of registration of the Company.—4th July 1895.

Progress in opening-

	s	ection	s of r	Date of opening.	Miles.	Total.						
			1							2 ·	3	4
Luckeeserai to Wazirganj Wazirganj to Gya	:	:	:	•	:	:	:	:	:	5-7-99 10-7-99	}75.82*	75-82*

^{*} Excludes 2.70 miles of double line included in E. I. Rly.

Details of construction-

Permanent-way.—The permanent-way consists of double-headed steel rails, 75-lbs. to the yard, laid on wooden sleepers and cast iron chairs and Denham-Olpherts' cast iron plate sleepers.

Ballast.—The line is ballasted throughout with stone.

Fencing.—The line is senced only near villages, at stations and for a short distance on each side of level crossings.

Curves.—The sharpest curve is of 1,685 feet radius.

Gradients.—The ruling gradient is 1 in 400.

Contracts-

On the termination of the contracts with the late East Indian Railway Company the line was brought under direct State management with effect from the 1st January 1925, the Secretary of State having the authority to maintain and work the line either by the agency of a railway company or the State under the terms of the following contracts:—

Dated the 7th August 1895 (called the principal contract), between the Secretary of State and the South Bihar Railway Company, as to construction.

Dated the 21st April 1903 (supplemental to the contract of 1895), between the Secretary of State and the South Bihar Railway Company, as to the adoption of 1s. 4d per rupee as the "prescribed" rate of exchange.

Dated the 11th December 1906 (supplemental to the contract of 1895), between the Secretary of State and the South Bihar Railway Company, as to the relinquishment of the South Bihar railway to the Secretary of State and yearly payment to the Company until date of determination of the contract of the 7th August 1895.

Main provisions of contracts-

- (i) Land.—Provided by the Government free of cost to the Company.
- (ii) Government aid.—
 (iii) Terms of working.—

 Government constructed the line from funds provided by the South
 Bihar Railway Company, and maintained, stocked and worked it
- (iv) Distribution of profits.— I through the agency of the late East Indian Railway Company up to the 31st December 1905, for a certain proportion of its gross earnings; and, by agreement with that Company, also allowed to the South Bihar Railway Company, by way of rebate, a percentage of the East Indian Railway's share of the receipts from traffic interchanged between the two railways towards making up an amount equal to 4 per cent. interest for each half-year on the actual capital expenditure (subject to certain limits) on the South Bihar railway.

With effect from the 1st January 1906 the South Bihar Railway Company leased its line to the Government for a yearly sum of £30,000, payable by half-yearly payments of £15,000, at the end of each calendar half-year, in substitution of the corresponding provisions of the principal contract of the 7th August 1895.

- (v) Rates and fares-
- (vi) Special obligations as to the conveyance of .-
 - (a) Mails, troops, high Government officials and Government stores.—
 - (b) Government bullion and coin and the persons in charge thereof.—

as under the East Indian railway.

- (vii) Power of the Government to determine contracts.—Government may determine the South Bihar Railway Company's contracts on the 30th June 1919, or on the 30th June in the last year of any subsequent period of 10 years from that date, by giving twelve months' notice. In case of such determination the Government will pay to the Company in England £684,580 as being the capital expended on the undertaking with the authorisation of the Secretary of State.
 - N. B.—It has been decided not to give notice of purchase to the company, but to allow the contract to continue for another 10 years from 30th June 1929.
- (viii) Power of the South Bihar Railway Company to surrender contracts.—Nil.
- (ix) Term of South Bihar Railway Company's contracts if not determined under (vii)] .- Not specified.

(c) South Bihar railway (5' 6" gauge)—concld.

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earn- ings.	Net earn- ings.	Percentage of net earnings on total capital outlay given in column (3).	Rebate from the East Indian railway.	Total income.	Percentage of total income on total capital outlay given in column (3).	Earn- ings per mile per week.	Proportion of expenses to earnings,
1	2	3	4	5	6	7	8	9	10	11
	Miles.	Rs.	Rs.	Rs.		Rs.	Re.		Rs.	
1899 - 1900 -	78·83 78·76	1,18,16,730 1,23,15,110	2,03,328 4,67,133	1,32,163 3,03,636	1·12 2·47	33,403 1,44,404	1,65,566 4,48,040	1·40 3·64	100 114	35.00 35.00
1901 1902 1903 1904 1905	78·76 78·76 78·76 78·76 78·76	1,23,66,533 1,19,88,612 1,20,01,897 1,19,72,914 1,19,77,154	5,14,870 4,99,809 5,24,605 5,70,358 5,55,199	3,08,822 2,74,895 2,88,533 3,13,697 3,05,360	2·50 2·29 2·40 2·62 2·55	1,22,082 1,35,445 1,57,708 1,65,382 1,72,721	4,36,904 4,10,340 4,46,241 4,79,079 4,78,081	3.53 3.42 3.72 4.00 3.99	125 122 128 138 135	40.02 45.00 45.00 45.00 45.00
1906 . 1907 . 1908 . 1909 . 1910 . 1911 . 1912 . 1st qr. of 1913.14 1914.15 . 1916-17 . 1917-19 . 1918-19 . 1919-20 . 1920-21 . 1921-22 . 1922-23 . 1923-24 . 1924-25 . 1926-27 . 1927-28 . 1928-29 . 1928-29 . 1929-30 . 1930-31 . 1931-32 . 1932-33 . 1933-34 . 1934-35 .	78-76 78-76 78-76 78-79 79-19 79-19 79-19 79-19 79-19 79-19 79-19 79-19 79-19 79-19 79-19 79-19 79-19 79-19 79-19 79-19 79-27 75-82(a) 75-82(a) 75-82(a)	1,19,74,947 1,10,77,154 1,19,77,154(6) 1,19,77,154(6) 1,19,77,154(6) 1,19,77,154(6) 1,19,77,154(6)	See " 1		orking" abo					

 ⁽a) 3.45 miles length between Manpur and Gaya excluded from S. B. Rly. and included in E. I. Rly.
 (b) Including expenditure in England.

(d) Cawnpore-Burhwal link (3' 33" gauge)-

The construction of the Cawnpore-Burhwal (3' 33" gauge) link was sanctioned as a part of the project for linking up the 3' 33" gauge systems of Northern India.

Progress in opening-

Sections	of railway.			Date of opening.	Miles.	Total	Remarks.
		2	3	4	5		
Burhwal to Daliganj . Aishbagh to Cawapore .	TOTAL	:	•	24-11-96 25-4-97	*35·31 45·03	80.34	*Including the length, Burhwal to Bara Banki, 16.79 miles, laid on a mixed (5'6" and 3'3\frac{3}{5}") gauge.

Details of construction-

Permanent-way.—Where the line is not mixed gauge it is laid with new 50-lb steel rails on sâl and deodar sleepers.

Ballast.—The line is ballasted with kunkur, brick and stone.

Fencing.—The line is fenced throughout.

Curves.—The sharpest curve has a radius of 573 feet.

Gradients.—The ruling gradient is 1 in 400.

(d) Cawnpore-Burhwal link (3' 3\frac{3}{8}" gauge)—concld.

The line is owned by the State. The Bengal and North Western Railway Company exercises running powers over it under an agreement with the Oudh and Rohilkhand railway (now East Indian Railway) dated the 21st February 1902, which provides that the Company will haul its trains and traffic over the link and pay to the Oudh and Rohilkhand railway (now East Indian Railway) 80 per cent., which has, with effect from the 1st July 1905, in pursuance of Railway Board's letter No. R. T.-178, dated the 30th June 1905, been reduced to 75 per cent. of the gross receipts arising therefrom

Statistics of working :- Included with the East Indian Railway.

(e) Statistics of the working of the Oudh and Rohilkhand railway:-

NOTE.—From 1889 the figures of Cawnpore Burhwal (3'-3%" gauge) link are included. From 1925-26 the figures are included in those

of th	e East India	n Railway in table	(a).	.go, aro .	normacu. P	10111 1020-20	the figures are	moraueu .	in those
Year.	Mileage open at end of each year.	Total capital outlay, including suspense to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	. Net earnings.	Percent- age of net earnings on total capital outlay or capital at charge, given in column.	Interest.	Gain or loss to the State pertaining to each year.	Earnings per mile per week.	expenses
1	2	3	4	5	(3). 6	7	8	9	10
	Miles.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	
1867	••	••	••	••	••		••	74	106.97
1868	••	••	::	• • •		::	••	120 97	64·54 81·74
1870			1				••	112	227 · 93
1871 .	••	••		••				117	69-31
1872	••	••	••	••	••	••	• •	56	68.58
1873 .	••	••]	••	••	••		••	56 72	72.91
1874 . 1875 .	••	::	::	••	::		••	97	64·41 59·71
1876 .	l ::			•••	l :: '		- ::	120	63.93
1877 .			••	••	l	1	••	153	52.38
1878 .	••	- ii or -a.	10.11.010		•=		:	163	54.23
1879 .	٠٠ ١	5,80,35,764 6,02,24,081	43,44,843 44,55,150	18,19,936 19,04,409	3·14 3·16	28,00,000 28,19,946	-9,80,064 $-9,15,537$	153	58·11 57·25
1880 . 1881 .	1 ::	6,25,30,935	49,28,730	19,75,699	3.16	29,14,137	9,38,438	157 173	59.91
1882 .	1 ::	6,52,79,840	52,62,844	18,01,371	2.76	30,67,622	-12,66,251	185	65.77
1883 .		7,07,69,446	54,56,255	24,80,362	3.51	31,35,495	6,55,133	192	54.54
1884 .	• • •	7,91,43,383	52,75,198	23,26,146	2.94	41,14,587	-17,88,441	182	
1885 . 1886 .	•••	8,54,34,426 8,95,12,775	55,37,369 65,05,408	19,05,361 28,60,755	2·23 3·20	46,53,333 51,88,014	-27,47,972 $-23,27,259$	176 180	65.59 56.02
1887 .	::	9,17,06,668	66,46,213	31,35,249	3.42	53,98,339	-22,63,090	186	
1888 .		9,18,41,649	70,77,053	30,16,005	3.28	51,67,494	21,51,489	197	
1889 .	692.55	9,22,32,226	75,39,683	42,04,076	4.56	49,71,898	7,67,822	209	64.24
1890 .	692·55 692·55	9,27,89,280 9,28,38,358	73,81,396 85,64,209	37,54,478 49,42,458	4·05 5·32	44,23,109	6,68,632	205	49·14 44·29
1891 . 1892 .	692.55	9,51,44,770	85,42,836	50,16,329	5.27	47,25,666 52,73,411	+2,16,792 $-2,63,082$	238 237	41.28
1893 .	741.11	11,09,17,292	87,16,926	50,17,053	4.97	55,01,058	-4,84,005	239	42.44
1894 .	796.64	10,28,87,184	1,05,18,836	57,36,138	5.58	63,11,201	5,74,063	262	45-47
1895 .	797.18	10,65,05,148	1,02,94,880	52,55,948	4.93	64,26,370	-11,70,422	248	48.95
1896 . 1897 .	830.15	10,92,69,485	86,97,076 85,15,856	43,50,907 36,96,778	3·98 3·23	61,30,729 59,73,486	-17,79,822 -22,80,708	209 186	49·97 56·59
1897 .	1,030 36		98,51,599	53,07,727	4.55	58,76,247	-5,68,520		
1899 .	1,030.36	12,23,50,210	1,11,38,990	60,76,595	4.97	59,75,202	+1,01,393		
1900 .	1,101.56		1,15,15,132	55,91,727		62,28,185	6,36,458		
1901 .	1,118.94		1,32,54,991 1,31,65,792	72,20,007 64,11,336	5·60 4·69	63,12,044	+9,07,963		45.53
1902 . 1903 .	1,119.24		1,39,49,922	72,31,862		64,79,103	-67,767 +3,90,909		
1904 .	1,237 - 65		1,52,96,206	71,33,117			+78,997		
1905 .	1,244.65		1,53,85,913	63,43,667			-8,24,764	238	
1906 .	1,292 · 16		1,64,67,329	78,15,731			+2,49,721		
1907 . 1908 .	1,302.83		1,81,93,069 1,61,61,543	65,62,413 50,29,153			5,37,151 24,54,057		
1909 .	1,310.52		1,61,86,594				-30,59,567		
1910 .	1,406.75	18,58,11,981	1,83,03,844	88,80,832	4.78	78,34,486	+10,46,346		
1911 .	1,513.77		2,03,88,454				+24,78,660		
1912 .	1,604.14		2,45,19,400				+49,55,205		
1st qr. of 1913.	1,004-19	20,24,25,041	01,00,410	20,00,128	' 1.41	21,63,489	+6,96,240	93	3 51.35
1913-14†	1,638-33	21,64,74,673	2,41,23,950	1,23,21,631	5.69	91,48,838	+31,72,793	3 28	3 56.71
1914-15†	1,682-00	22,15,79,383		91,22,888	4.12		-2,28,58		8 48.92
1915-16	1.606 - 87						+20,97,330	5 26	3 49.68
1916-17 1917-18	1,606.8								
1918-19	1,592 • 2						+84,64,905		
1919-20	1,592 • 29	22,11,50,190	3,16,06,119	1,37,60,696	6 - 25	2 93,27,685			
1920-21	1,577 • 23						+46,73,00	6 39	1 59.41
1921-22	1,593 • 3								
$\begin{array}{c} 1922-23 \\ 1923-24 \end{array}$	1,590.4			1,31,49,354 1,08,19,865		2 1,03,41,47 4 1,06,35,86			
1924-25	1.588 • 5	1 31,97,43,935	3,66,74,699	93.28.57	2 2.99	2 1.07.17.319	2 -13.88.74		
1925-26	Include	d under East India	n Railway 5'	6" gauge fro	m 1925-26	and onward	s.)	l l	ļ.
From 19	23-24 the fig	gures in this column	represent the	total capita	lat charge	including li	abilities involve	ed in the	purchase

nt the total capital at charge including habilities involved in the purchase

*From 1923-24 the figures in this column represent the total capital at charge including habilities involved in the of the line converted at 1s. 4d. per rupee.
†Includes the Cawnpore-Banda Railway which from 1915-16 was transferred to the Great Indian Peninsula Railway.
‡Including premia paid by Government in the purchase of the line.

Lines comprised in the system.—The Great Indian Peninsula railway system is made up of-

							nder construction or sanctioned for construction Miles.	Total, Miles,
(a) Great Indian Peninsula Railway (5'	6" gau	ge).				3,165.63	••	3,165 · 63
(b) Bhopal-Itarsi railway (5' 6" gauge)						56 · 64	••	56.64
(c) Bhopal-Ujjain railway (5' 6" gauge)						113.46	••	113.46
(d) Bina-Goona Baran railway (5' 6" ga	uge).					147.07	••	147.07
(e) Dharwah-Pusad railway (2' 6" gaug	е) .					42.80	••	42.80
(f) Dhond-Baramati railway (2' 6" gaug	e) .					27.30	••	27.30
(g) Ellichpur-Yeotmal railway (2' 6" gar	ige) •		:			117.81	••	117-81
(h) Pachora-Jamner railway (2' 6" gaugi	o) .					34.62	••	34.62
(i) Pulgaon-Arvi railway (2' 6" gauge)	•	•		•	•	21.83	••	21.83
			Т	otal		3,727.16	••	3,727 · 16
			Ī					
unning powers—								
Home line over foreign lines:-	or loca	n] traì		w 1.39	3 mild			1.2
Home line over foreign lines : B. B. and C. I. Railway.—Mahim to Bandra is			ns onl				ni down outer to	
Home line over foreign lines:-	asseng	er tra	ns onl				oni down outer to	. 1·3: Allah- 50·3:
Home line over foreign lines:— B. B. and C. I. Railway.—Mahim to Bandra a E. I. Railway.—Cawnpore to Lucknow for p	asseng 2 miles	ger tra	ns onl	ly 45	00 m	iles and Nair	ni down outer to	Allah-
Home line over foreign lines:— B. B. and C. I. Railway.—Mahim to Bandra at E. I. Railway.—Cawnpore to Lucknow for pabad for passenger and Goods trains 50.3.	asseng 2 miles asseng	er tra	ns onl ins on •	ly 45	00 m	iles and Nair	ni down outer to	Allah-

B. B. & C. I. Railway.—Dadar Junction to Carnae Bridge for Goods trains 4·240 miles, Mahim to Wadala for passenger and goods trains 1·160 miles, Muttra Junction to Okhla for passenger and goods trains 82·925 miles, Fatehpur Junction to Belanganj for goods trains 2·910 miles .	91 • 235
E. I. Railway.—Jumna Bridge to Agra Cantt. for passenger trains 4 · 245 miles	4.245
B. N. Railway.—Nagpur to Ajni Yard for goods trains 2.600 miles	2.600

Total . 98.080

(a) Great Indian Peninsula railway (5' 6" gauge)-

The Great Indian Peninsula railway comprises the line formerly owned by the old Guaranteed Company of that name in amalgamation with that of the late Indian Midland Railway Company.

The property owned by the old guaranteed Great Indian Peninsula Railway Company was purchased by the State in 1900 and the contract between the Secretary of State and the Indian Midland Railway Company, dated the 22nd October 1885, was determined by the Secretary of State on the 31st December 1910. The amalgamated lines formed part of the Great Indian Peninsula railway undertaking which was worked by the reconstituted Great Indian Peninsula Railway Company up to 30th June 1925, when all the contracts then subsisting between the Secretary of State and the Company were determined and the line was brought under State management with effect from the 1st July 1925.

The Gwalior Light Railway was worked by the Great Indian Peninsula Railway Company up to 30th June 1913, after which date the working was taken over by the Gwalior Darbar.

G. I. P. RAILWAY SYSTEM. REFERENCES. 5-6" G.I.P. Railway.... Indian State lines..... Private Companies lines..... Home, Branch and Local line Junctions Junctions connecting Foreign lines SCALE IN MILES OKHLA JUHI (CAWNPORE) KOSI KALAN AGRA CANT KUNCH O DHOLPUR KHAIRADA GWALIOR JHANSI KATNI MURWARA JUBBULPORE BARAN GADARVADA Котан BHOPAL PARASIA UJJAIN 6 TADALI AMRAOTI KHANDWA BADNERA-BALHARSHAH MURTAZAPUR YEOTMAL DARWHA-MOTIBAGH BHUSAVAL JALGAON KHAMGAON PUSAD AMALNER () PACHORA CHALISGAON MANMAD DHOND KURDUWADI KALYAN SHOL APUR' HOTGI **O**BARAMATI RAICHUR DADAR VICTORIA (TERMINUS MANKHURD



(a) Great Indian Peninsula railway (5' 6" gauge)-contd.

Progress in opening-

Section	ns of r	ailwa	y.				Date of opening.	Miles.	Total,	Grand total,	REMARKS	
	~]						2	3	4	5	6	
GREAT INDIAN PENINSULA NORTH-EAST LINF— Main line— Buffer Stop—Mile)		ropi	-n-		•	55	0.20			(a) Minu	
Victoria Terminus to Thana to Kalyan Kalyan to Vesind	Thar		:	:	:	:		(a) 10.90			0.65 mil	
Vasird to Asangaon		:	:	•	•	:	1-10-54 6-2-60				due to	
Asangaon to Kasara Kasara to Igatpuri (1		: :hat\	•	•	•	•	1-1-61	21.8	1		measure-	
Igatpuri to Nasik		•	:	:	:	:	1-1-65 28-1-61			}	ment.	
Nasik to Chalisgaon	. •	•	•	•	•		1-10-61	87 2	1	İ	1.12 mile	
Chalisgaon to Julgaon Jalgaon to Bhusaval		:			•		6-10-62 20-5-63				Correction	
Bhusaval to Burhang	HE	•					20-11-65	33.73		1	actua	
Burhanpur to Khand Khandwa to Bir			•	•	•	:	3-9-66 17-2-68				measure-	
Hir to Itarsi .	•			·			1-1-70	89 - 27		}	ment. Taken	
Itarsi to Sohagpur Sohagpur to Jubbulp	ate	•	•	•	•	•	1.2 70 8 3 70				over from	
*Jubbulpore to Naini	nr d (•	;	:	1867	••222·83		1	Ry. or	
Raja-Ki-Mandi (Agra †Kosi to KiloLri (949)				•	•	. •	3.12.04]	1-10-25.	
Brarches-	4011	umej	•		•	•	15-11-04	(f) 55.27	950 - 26]	†Kilokri to Delhi	
Itarsi-Nagpur tranel — Itarsi to Betul							1.5.00	(-) 00.20	1	ł	handed	
itarri to Betul . Betul to Amb	:	:	:	:	:	:	1-5-13 29-9-14				N. W. Ry.	
Amla to Parasia .	•	•	,				1-11 15				on 1-3-26	
Nagpur to Katol . Katol to Narkher	•	•		•		•	15-1-23 1-11-23	**.'8 01 15:76		ļ	(c) Plus 0:38 mile	
Narkber to Anda		:	÷	÷	:		4-9-24	50.07			Correction	
Bandary Harbour tranch- Buffer Stop-Mile.							25	0.19			duo to	
Victoria Terminus to	Reny	Rond	ι.	:	:	:	4-2-25	2 54			actual remeasure	
Reay Read station to	Kurl	٠.	•	•	•	•	12-12-10	7.17		<u>,</u>	ment.	
Kurla-Cl.ev.hur brarch— Kurla to Chembur							4-2-24	1.24	9.60		**Actual Remea-	
Chembur to Mandala		•		•	•		1-7-27	2.94	1		surement.	
Mahim chird Ravali to Mahim							12-8-14	1.16	(d)4·18		(d) Minus	
Challegaen Dhella branch	, <u> </u>	•	•	•	•	•	12-0-17		1.16		0.34 mile Correction	
Chalisgaon to Dhulia Jalgaon-Amalner branch-	•	•	•	•	٠	•	15-10-00	31.95	1		due to	
Jalean to Erandol Re							20-2-00	18:26	31.05		actual ro- measuro-	
Erandol Road to Ame	ilner	•	٠	•	•	•	4-4-00	16.00			ment.	
Nagpur branch— Bhusaxal Junction to .	Malke	pur					20-5-63	**30.08	34.26	į	(e) Plus	
Malkapur to Shegaon	•	•					24-10-64	32.53	1	i	Correction	
Shepaon to Badnera Badnera to Pulgaon	•	•	•	•	•	٠	18-12-65 16-7-66	72·67 40·29	1		duo to	
Pulgaon to Sindi .	:	:	:	:	:		5-11-66	38-27	! !	ł	measuro.	
Sindi to Nagpur .	•	•	•	•	•	.	20-2-67	29-62	1		ment.	
Khamgaon branch— Jalamb to Khamgaon						!	4.3.70	7.09	243.46		(f) Minus 0.08 mile	
Amracti branch-									7.99	1	due to por-	
Badnera to Amraoti Balbarehah branch—	•	•	٠	•	•	• }	16-2-71	5-99	5.08		tion hand.	
Wardlin to mile 490:20							1-2-70	18.94	0 00		N. W.	
Mile 490 20 to mile 512 Mile 512 61 to Warom		•	•	•	•		24-12-75 26-4-76	22·44 4·00	(l	Railway.	
Warpra to Balharshah		:	:	:	:	: 1	1-2.08	37.12		ĺ	(g) Plus	
Majri to Rajur .	•	•	•	•	•		4-5-25	13.20	82.50	1	0.52 mile	
Glague extension— Tadali to Ghugus							15-11-18	s·71	13.20		due to diversion	
•	•	•		•	•	٠,	10-11-10		8.71	j	of mean	
Agra-Bah-						}				1	mileage of	
Agra to Bah .		•				.]	17-9-28	43.00			Padeali and Laha-	
~						- }				}	rit.	
Baran Kolah-						- 1	Ì		43.00		(h) Minus 1.03 miles	
Baran to Antah .	•	•	•	•	•	.	20-2-07	13.58		1	duo to	
Antah to Kotah .	•	•	•	•	•	•	1-5-09	26.71	1		removal of Muttra	
						- }	ļ		40.29		yard, B.	
						1				ŀ	B. and C.	
						1	}		į		I. Rail- way.	
						- {	}	}	}			
		Carri	ed or	i.r						1,718:51		
						٠,	}	•••	•• ;	TO OT		

Notz.—Mohpani Branch (Gadarwada to Gotitoria) (11.70 miles) removed and Kosi Kalan and Sanket Branch (15.95 Miles) closed on 1st A ril 1927 and materials removed in 1931. H54CRAccts

(a) Great Indian Peninsula railway (5' 6" gauge)—contd.

Progress in opening-contd.

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	REMARES.
,	2	3	4	5	G
Brought forward .	••	••		1,718 • 51	
Cawnpore-Banda— Juhi to Hamirpur Road Hamirpur Road	21-4-13 20-7-14	32·02 43·16	76•08		
SOUTH-EAST LINE— Main line— Kalyan to Palasdhari (Karjat) Palasdhari to Khandala (Bhore Ghat) Khandala to Poona Poona to Diksal Diksal to Kurduvadi Junction Kurduvadi Junction to Mohol Mohol to Sholapur Sholapur to Gulbarga Gulbarga to Krishna Krishna to Raichur Branches— Manmad branch— Dhond to Ahmedungar	12-5-56 14-5-63 14-6-58 15-12-58 23-10-50 21-1-60 6-0-60 1-2-70 1-12-70 1-5-71	(a) 31·33 (b) 12·99 43·64 64·25 50·60 28·32 20·51 70·29 † 73·32 13·12	408 ·3 7		(a) Plus 0.73 mile Correction due to actual measurement. (b) Minus 0.21 mile Correct i o n due to Bhore Ghat realignment. †Realignment over Cogneo river.
Ahmednagar to Manmad Khopoli branch— Palasdhari to Khopoli	17-4-78 12-5-56	‡94·08 7·25	144·49 7·25		
OTAL OPEN MILEAGE, GREAT INDIAN PENINSULA RAILWAY PROPER—				636 • 19	
**Indian line (including the Scindia State railway)— Bhopal to Jhansi Jhansi to Gwalior Gwalior to Hetampur* Hetampur to Dholpur* Dholpur to Agra Cantonment* Junction with Agra-Delhi Chord railway at Agra to terminal point of Belanganj Goods Depot. Centre of Agra Cantonment (mile 834-21) to junction point with Bombay, Baroda and Central India Railway near Idgah (Agra) (mile 835-56). Agra Bayana Spur line Branches—	1-1-89 1-3-89 20-12-79 5-5-81 10-1-78 27-2-06 1-3-05	179°62 60°10 32°40 8°04 ‡ 36°76 2°46 0°98		2,354.70	*Scindia State railwav †Actual measure- ment, (c) Plus 0.35 milo taken
Manikpur branch— Jhansi to Mau Ranipur Mau Ranipur banda Banda to Manikpur Cawnpore branch—	5-6-89 1-8-89 15-2-89	39·90 78·96 ‡61·30	320·74 180·16		over from E. I. Rly. on 7-1-32.
Jhansi to Chaunrah Chaunrah to Juhì	1-2-88 1-4-86	94·78 (d) 37·84	132.62		(d) Minus 0.55 mile
North quarry Bina to point of junction with Bina-Goona-Baran railway.	26-7-07 1-5-95	2.78	2.78		Correction due to the
	1-41-00	2 00	2.00		portion handed over to E. I. Rly.
Bina-Saugor-Katni branch— Bina to Saugor Saugor to Damoh Damoh to Katni Katni Murwara to junction with Bengal-Nagpur railway.	5-6-89 26-3-98 1-1-99 1-1-90	45·25 47·83 ‡69·84 0·71	١		on 6th February 1931.
Katni Murwara to junction with East Indian railway. Agra area	1-1-99	0.44	164.07	'	!
Junction near east mouth of tunnel (mile 837.53) to East Indian railway down point of Agra City (mile 837.57).	3-2-13	0.04			
East Indian railway down point of Agra City (mile 837.57) to junction with East Indian railway (mile 837.60).	3-2-13	0.03	0.07		
Ait to Kunch Total open mileage, Midland section	7-12-03	<u>‡8·49</u>	‡8·49		
COTAL OPEN MILEAGE, MIDIAND SECTION COTAL OPEN MILEAGE, GREAT INDIAN PENINSULA RAILWAY	••	••	••	810.93	
	••	••	••	3,165.63	

(a) Great Indian Peninsula railway (5' 6" gauge)—contd.

Progress in opening-concld.

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	Remarks.
	2	3	4	5	6
QUADRUPLE LINE					
Buffer Stop—Mile 0 Victoria Terminus to Curry Road Curry Road to Thana Thana to Kalyon Total Quapruple Line	28 4-12-05 4-12-15 17-3-16 1-3-17	0·19·1 4·29 16·97 1·59 *9·70	32•74	32.74	*Minus 0.65 mile Correc- tion due to
			••		actual mea- surement.
Double line—					
North-East line-				Ì	
Main line—					
Kalyan to Vasind Vasind to Atgaon Atgaon to Kasara Kasara to Igatpuri Igatpuri to Kajgaon Kajgaon to Pachora Pachora to Maheji Maheji to Bhadli Bhadli to Bhusaval Bhusaval to Bhusaval Junction Bhusaval Junction to Khandwa (Abna Junction) Khandwa to Itarsi	22-10-66 20-2-67 25-4-67 11-65 10-1-69 17-3-69 27-5-69 6-3-73 6-6-73 1-7-92 11-189	17-29 9-65 15-94 9-89 (a) 128-99 16-05 9-14 27-59 7-84 0-80 74-62 110-48			(a) Plus 0.52 mile due to diver- sion of mean mileage of Padali and Laharit sec- tion.
Bombay Harbour branch— Buffer Stop to Mile 0		0.19	428 18		ĺ
Victoria Terminus to Reny Road Reny Road Station to Kurla	4-2-25 2-12-10	2·58 7·17			Ì
Mahim chord— Ravali to Mahim	12-8-14	1.16	9·94 1·16		ļ
Kalyan to Palasdhari Palasdhari to Khandala Khandala to Lonavla Lonavla to Malavli Malavli to Talegaon Talegaon to Shelarvadi Shelarvadi to Poona	12-5-56 (14-5-63 14-6-58 29-5-07 8-1-08 22-5-08 13-5-08	†31·33 ‡12·99 2·35 4·92 13·51 6·02 16·13			† Plus 0.73 mile Correction due to actual measurement. ‡Minus 0.21 mile Correction due to
Nagpur branch—			87.25		Bhore Ghat realignment.
Bhusaval Junction to Bodwad Bodwad to Shegaon Shegaon to Murtajapur Murtajapur to Badnera Badnera to Dhamangaon Dhamangaon to Dahegaon Dahegaon to mile 465½ Mile 465½ to mile 475½ Mile 475½ to Sindi Sindi to mile 514½ Mile 514½ to Nagpur	11-1-80 1-4-90 30-3-15 9-11-15 25-1-17 1-5-17 12-3-18 30-8-18 21-12-21 6-5-22 { 19-12-18 19-1-22	\$ 17-60 44-88 46-49 25-50 28-76 22-24 3-11 10-12 16-14 23-08 1-70 4-84			§Due to actual remeasurement.
Midland section—			243.46		
Agra Cantonment to new Junction with Agra- Delhi Chord railway near Raja-ki-Mandi. Old Junction with Agra-Delhi Chord railway near	3-2-13 3-2-13	2·70 2·13	· ·		
Raja-ki-Mandi (mile 836-58) to terminal point of Belanganj Goods Depot (mile 838-07). Junction near east rhouth of tunnel (mile 837-53) to East Indian railway down point of Agra City	8-2-13	0.04			
(mile 837-57). Junction point near Raja-Ki-Mandi to Centro of Bilochpura Station.	3-2-13	0.66	5.53		
, ~			0.93		
	ì	ľ		1	

(a) Great Indian Peninsula Railway (5' 6" gauge)—contd.

Details of construction-

Permanent	Way	:
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									Down] Miles.	Up Miles.
North East Line (Bombay to Delhi). The line is laid with	thef	follow	ing P	orman	ont V	Vay :-	-			•
100 lbs. B. H. rails on wooden & C. I. Pot sleepers			•						369	310
90 lbs. F. F. rails on troughs and C. I. plates .									429	160
85 lbs. B. H. rails on wooden and C. I. Pot sleepers									108	
82 lbs. B. H. rails on C. I. Pot sleepers									80	••
South East Line (Kalyan to Raichur). The line is laid wi	ith th	e follo	owing	Perm	anen	Way	:			
115 lbs. F. F rails on wooden sleepers								_	2	2
100 lbs. B. H. rails on wooden and C. I. pot sleopers									841	837
90 lbs. F. F. rails on troughs									156	11
821bs. B. H rails on C. I. Pot sleepers									145‡	Ĩ
Bhusawal to Nagpur.—The line is laid with the following	Pern	ianent	t Way						-	-
100 lbs. B. H. rails on C. I. Pot sleepers									61	1851
82 lbs. B. H. rails on C. I. Pot sleepers							·		2367	58
Itarsi to Allahabad The line is laid with the following Pe	rmar	ient V	Vn 17 •-		-	-		•		•
100 lbs. F. F. (Old section) rails on Wooden and C. I.			·							771
•	1 1400		•	•	•	•	•	•	••	771
100 lbs. D. H. (E. I. R.) rails on D. O. plates .	•	•	•	•	•	•	•	•	••	467
90 lbs. F. F. (E. I. R.) rails on troughs	•	•	•		•				••	2261
$88\frac{1}{2}$ lbs. B. H. (E. I. R.) rails on Wooden and D. O. I	Plates	•	•	•	•	•	•		••	241

Branches-

- (i) The following branches are laid with 100 lbs. B. H. rails on wooden sleepers :-
 - (1) Harbour Branch.

(2) Mahim Chord.

- (ii) The following branches are laid with 82 lbs. B. H. rails on C. I. Pot sleepers :-
 - (1) Dhond-Manmad.

(2) Jalamb-Khamgaon.

(3) Badnera-Amraoti.

(4) Wardha-Ballarshah.

(5) Majri-Rajur.

- (6) Amla-l'arasia.
- (7) Itarsi-Nagpur except between Amla and Narkhed which is 90 lbs. F. F. rails on troughs.
- (iii) The following branches are laid with 80 lbs. F. F. (I. M. R.) rails on wooden, C. I. pots and trough sleepers:—
 - (1) Bina-Katni.

- (2) Jhansi-Manikpur.
- (3) Jhansi-Cawapore except for 25 miles on 82 lbs. B. H. rails on C. I. pots.
- (iv) The following branches are laid with 75 lbs. F. F. (I. S. R.) rails on wooden and trough sleepers:-
 - (1) Bhopal-Ujjain.

- (2) Cawnpore-Banda.
- (3) Bina to Kotah except Baran Kotah which is 87 lbs. on wooden sleepers.
- (v) Ait-Kunch is laid with 75 lbs. D. H. rails on D. O. plates for about 4 miles and the remaining 4½ miles with 62 lbs. F. F. (S. S. R.) rails on steel troughs.
- (vi) The following branches are laid with 69 lbs. D. H. rails on C. I. pot sleepers :-
 - (1) Kurla-Mankhurd.

(2) Karjat-Khopoli.

(3) Chalisgaon-Dhulia.

(4) Jalgaon-Amalner.

(5) Tadali-Ghugus.

(6) Agra-Bah.

- Ballast.—The line is ballasted with broken stone, sand, gravel, laterite, kunkur and moorum but on Cawnpore-Banda Section brick ballast has been provided in few station yards.
- Fincing.—The whole of the G. I. P. railway proper is fully fenced with the exception of the branches which are partially fenced.
- Curves.—On main line the sharpest curve has a radius of 857 feet on the Thull Ghat between miles 78.00 and 79.00.
- On branches the sharpest curve has a radius of 600 feet on Kurla Mankhurd Railway between miles 0.00 to 1.00.
- Gradients.—On the Great Indian Peninsula railway proper the ruling gradients on ordinary sections of the main line vary from 1 in 100 to 1 in 200, with 1 in 100 banking sections near Vasind and Asvali the ruling gradient on the Ghat sections is 1 in 37 and on Harbour branch (electrified) 1 in 34. On the Midland section the ruling gradient between Bhopal and Jhansi is 1 in 200; between Jhansi and Agra 1 in 150 and between Jhansi and Manikpur 1 in 125. The Jhansi-Cawnpore branch is practically level, except at Jumna bridge approaches where the gradient is 1 in 250 and between Jhansi and Garhman where it is 1 in 200. On Baran Kotah the ruling gradient is 1 in 150 and between Cawnpore-Banda it is 1 in 150.

(a) Great Indian Peninsula Railway (5' 6" gauge)-concld.

Details of construction-coneld.

Contracts-

All the contracts between the Secretary of State and the railway company were determined Nil.on the 30th June 1925 and the line was brought under direct State management with effect from the 1st July 1925.

Rates and fares .- Certain maxima and minima have been fixed by the Government, between the limit of which the Railway Administration can vary the rates and fares quoted for goods and coaching

Statistics of working (Those for the periods prior to 1901 will be found in Appendix 38 to the Railway Administration Report for 1907)-

Note —The amount of sterling liabilities involved in the purchase of railways included in the figures shown in column 3 below against 1933-34 and 1934-35 has been converted at the rates of exchange ruling—at the time when the liabilities came into help, as against the statutory rate of exchange a. e., Is. 6d. previously adopted. From the year 1935-36 onwards, the—same—amount has been reconverted at the latter rate.

Үелт.	Mileage open at end of each year,	Total earlial outlay, including suspease, to end of each year, (e, outlay on (i) lines open and (ii) lines parily or wholly under construction.	Gross earnings.	Net extraings.	Per- centage of net extra large on total expital outlay, or expital at charge given in	Interest.	Annuity and Sinking Fund.	Com- pany's share of surplus profits (based on terms of contract) attributable to each Year.	Gain or loss to the State perlanny to each year.	Earnings per mile per week.	Proportion of expenses to ournings.
1	2	3	4	5	(5) g	7	8	9	10	11	12_
	Miles.	Rs.	Ita.	Rs.		R4.	Rs	Rs.	Rs.	Rs.	
1901 . 1902 . 1903 . 1904 .	1,549-27 1,561-63 1,561-63 1,561-63	75,64,49,134 20,83,52,092 31,05,53,055 32,00,72,103	4,16,57,453 4,24,25,217 4,63,61,534 4,52,41,344	2.16,49,151 2.10,94,033 2,74,12,514 2,41,70,723	7:06 6:84 7:66 7:55	49,01,016 49,59,679 50,67,701 53,19,015	1,90,87,970 1,90,56,735 1,90,23,730 1,90,23,595	1,97,6611 2,64,702 3,70,633 3,84,935	-25,34,396 -31,91,103 -6,63,550 -5,53,750	518 523 575 592	48.09 50.18 49.18 49.80
1905 . 1906 . 1907 . 1908 .	1,561.63 1,561.63 1,501.63 1,599.41	32,65,20,022 33,57,61,972 35,22,01,847 37,26,47,900	5,22,33,977 5,05,23,470 5,23,77,292 4,63,32,792	2,70,22,162 2,53,01,931 2,42,15,559 1,76,85,213	8-29 7-54 7-07 4-73	57,50,850 61,23,510 61,14,699 55,53,230	1,97,28,535 1,90,28,535 1,97,28,340 1,90,28,340	5,23,413 4,46,777 4,23,269 64,298	+17,12,355 -2,96,925 -6,55,748 -82,59,645	641 623 649 563	48.27 49.92 52.88 62.24
1000 1010 1011 1012	1,593.53 1,605.24 2,420.40 2,419.33	37,29,51,494 39,67,92,534 52,41,05,122 54,83,41,056	5,07,26,707 5,85,41,731 7,21,01,393 6,02,03,465	2,23,43,594 2,53,06,771 5,21,75,319 3,69,34,275	6:03 6:67 6:03 6:74	72,63,545 74,45,102 1,32,37,351 1,33,36,641	1,99,23,340 1,99,23,355 1,99,21,599 1,99,27,104	4,00,763 2,11,031 6,30,327	-39,47,991 -11,30,449 -2,91,992 +39,40,203	634 705 573 635	57.64 56.14 55.88 51.00
1st qr. of 1913.	2,418-41	\$5,07,84,972	2,35,95,346	1,07,43,517	1.02	31,21,681	47,56,635	3,03,487	+22,56,754	751	51.47
1913-14 . 1914-15 . 1915-16 .	2,490.64 2,554.35	57,40,23,530 62,57,62,657 65,18,51,816	8,57,93,516 7,71,55,211 9,04,19,770	3,40,52,063 2,40,15,825 3,87,73,463	5.72 4.67 4.05	1,49,18,233 1,35,02,055 1,71,15,055	1,07,23,013 1,07,27,710 1,00,27,710	4,01,512 63,709 5,20,228	-2,95,725 -39,84,739 +21,10,470	664 593 681	62-91 57-11
1916-17 . 1917-18 . 1918-19 . 1910-20 .	2,551.71 2,557.13 2,551.84 2,561.62	65,77,23,935 66,55,45,497 67,23,21,103 64,99,15,469	9,74,13,413 10,61,0*,411 11,89,14,999 12,63,46,9*2	4,50,10,039 4,91,99,571 5,00,22,092 4,70,91,731	6-81 7-44 7-52 6-83	1,70,49,050 1,76,59,601 1,79,21,600 1,80,70,710	1,00,27,650 1,00,27,665 1,00,27,605 1,00,27,650	7,01,697 10,02,459 10,41,379 8,05,548	+81,38,711 +1,17,80,753 +1,23,32,258 +82,18,823	734 799 893 949	53.78 53.33 57.43 62.73
1929-21 . 1921-22 . 1922-23 . 1923-24 .	2,551 · 62 2,551 · 46 2,634 · 25 2,615 · 55	\$56,05,43,000 \$90,18,93,349 \$91,49,97,934 \$97,10,53,568	12,81,81,810 (12,74,19,094 13,95,47,726 13,83,18,005	2,91,33,260 1,01,15,451 3,45,97,066 4,53,52,603	3:35 1:12 3:79 4:67	1,73,82,782 2,16,31,266 2,22,94,995 2,31,42,592	1,47,37,060 1,05,62,046 1,95,94,031 1,83,14,625	4,45,895	-20,87,482 -3,10,75,730 -67,03,005 +38,05,079	962 957 1,031 1,017	77 21 92 80 75.21 67.2
1924-25 . 1925-26 . 1926-275 1927-24 .	2,672-33 2,901-50 3,139-31 (a)3,145-64	†97,97,37,495 †\$1,04,99,97,703 †1,03,69,20,121 †1,13,41,93,230	14,35,93,934 14,02,17,901 14,61,48,932 15,15,14,616	5,47,67,038 3,87,74,608 4,21,31,031 5,34,01,198	5.93 3.73 3,87 4.71	3,16,75,412 (b)3,40,47,471 (b)3,64,62,504 3,89,01,941	(c) 	110,54,388 11,09,986	+2,53,39,203 (b)+45,27,151 (b)+59,08,287 +1,44,99,257	1,018 933 895 926	60 · 1 · 72 · 48 · 70 · 93 · 64 · 78
1923-29 · 1929-39 · 1930-31 · 1931-32(d)	(a)3,167.97, (a)3,143.11 (a)3,161.14 3,205.52	f1.16,03,22,552 1,14,02,02,484 1,16,59,53,443 1,17,24,43,633	15,44,02,430 14,34,51,576 13,16,07,516 11,65,03,145	5,27,59,829 4,19,67,525 2,93,28,340 2,69,38,769	4.51 3.65 2.52 2.30	4,10,66,391 4,23,84,242 4,57,32,391 4,60,61,731	::		+1,10,84,435 -0,14,714 -1,64,04,051 -1,91,25,914	037 865 795 701	65.68 70.74 77.72 76.94
1932-33(d) 1933-34(d) 1934-35(d) 1935-36(d) 1936-37	3,209-33 2,209-56 3,209-58 3,203-43 3,165-63	1,16,52,13,753 1,21,07,73,941 1,29,65,66,693 1,14,33,04,341 1,13,69,23,550	11,96,47,439, 12,23,91,710, 12,13,57,821, 12,54,92,624, 13,97,61,912	2,84,54,460 3,23,40,303 3,29,87,388 3,63,48,017 4,60,01,481	2:44 2:67 2:73 3:22 4:13	4,55,38,411 4,49,80,810 4,37,28,763 4,26,54,777 4,14,77,000	::	::	-1,70,83,951 -1,26,40,543 -1,07,41,375 -68,06,730 +55,14,388	717 733 727 752 794	76-29 73-48 72-89 70-64 64-06

fincluding premis paid by Government in the purchase of the line.

²From 1st July 1900 to 31st December 1901.

The capital at charge of Rs. 3,06,10,000 to end of March 1925 of the Naini-Jubbulpore settlen of the L. I. Ry, has been transferred to the G. I. P. Ry, without financial adjustment. The cost of Survey of the Agra-Bah rallway, rgs., Rs. 44,245-15-6 at end of March 1925 has also been brought on the G. I. P. By, books from those of the N. W. Ballway.

E For quarter ending 20th June 1925.

Includes Agra-Delhi chord, Baran-Kotah and Cawapore-Banda rallways.

⁽a) Includes mileage of Central Salestie Trammay.

⁽c) Revised figures.

⁽c) The capital account was permanently debited with the balance of capital flability outstanding on 31st March 1921 in respect of the purchaseo the railway under redemption by annulties and sinking fund on which full interest is charged in column 7.

(d) Includes Dharwa Pusad Railway (2° 6° guage section).

(b) Bhopal-Itarsi railway (5' 6" gauge)-

Progress in opening -

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.
1	2	3	4	5
Main line— Itarsi to Hoshangabad	1-0-82 1-11-84	10·76 45·00	55•76	
Centre of Bhopal station to the joint boundary of the Bhopal-Itarsi and Indian Midland railways at Bhopal.	11-11-95	0.88	0.88	
Total	••	••	••	56•64

Details of construction-

Permanent-way.—The line is laid with 90-R lb. F. F. rails on troughs from Itarsi to Hoshangabad and Barkhera to Bhopal and Hoshangabad to Barkhera with 100-lb. B. H. rails on C. I. pot sleepers except two small stretches of 90-R lbs. F F. rails on Narbudha and Godaria bridges.

Ballast.—The line is fully ballasted throughout with broken stone.

Fencing.—The line is fenced throughout.

Curves.—There are no curves with a radius of less than 1,080 feet.

Gradients.—The ruling gradient is 1 in 200, except on the Ghat section, 11 miles, where it is 1 in 80.

Agreements and contract-

On the termination of the contract with the late Great Indian Peninsula Railway Company, the line was brought under direct State management with effect from the 1st July 1925, the Secretary of State having the authority to maintain and work the line either by the Agency of a railway company or the State under the terms of the following contracts:—

Agreement, dated the 16th September 1880, between the Government of India and Her Highness the Begum of Bhopal, as to the construction, management, maintenance and working, by the Government, of the Bhopal-Itarsi railway.

Agreement, dated the 30th June 1887, between the Government of India and Her Highness the Begum of Bhopal, supplemental to, and modifying, the agreement of 1880.

Agreement, dated the 2nd December 1890, between the Government of India and Her Highness the Begum of Bhopal, supplemental to, and further modifying, the agreement of 1880

Contract, dated the 21st December 1900 (called the principal contract), between the Secretary of State and the Great Indian Peninsula Railway Company, as to the maintenance, management and working, by the Company, of the railways known as the Great Indian Peninsula railway system and the Indian Midland railway system, and the subsidiary lines included therein.

- (i) Land,—Land within the Bhopal State was provided free of cost by the Durbar; that within British territory by the Government at the cost of capital.
- (ii) Government aid.—The Government paid for the portion of the line in British territory, and a moiety of the cost of the bridge over the Nerbudda river; in all about Rupees 13,00,000; the Begum of Bhopal contributed Rupees 50,00,000 for the portion of the line in her dominions.
 - All additional capital is to be provided by the Government, which undertook to construct, maintain, manage and work the line by State or other agency. The line was managed, maintained, stocked and worked by the Great Indian Peninsula Railway Company up to the 30th June 1925 as part of Company's undertaking and the line was brought under direct state management on the termination of the contract with the Company with effect from 1st July 1925.
- (iii) Terms of working.—For working and stocking the Bhopal-Itarsi railway the Great Indian Peninsula Railway Administration receives a sum which bears the same proportion to the total working expenses of the undertaking, including the Bhopal-Itarsi railway, as the gross earnings of the Bhopal-Itarsi railway bear to the gross earnings of the undertaking.
- (iv) Distribution of profits.—The net earnings are divided in perpetuity between the Government and the Ruler of Bhopal in proportion to the capital contributed by each. In the event of the railway being worked at a loss, such loss is borne by the two parties in the same proportion.

(b) Bhopal-Itarsi railway (5' 6" gauge)—concld.

Agreements and contract-concld.

(v) Rates and fares.—

(vi) Special obligations as to the conveyance of-

(a) Mails, troops, police, high Government officials and Government stores-

(b) Government bullion and coin, and the persons in charge there-J of-

Great Indian as on the Peninsula Railway.

(vii) Power of the Government to determine contract-

(viii) Power of the Bhopal Durbar to determine contract-

Nu.

(ix) Term of contract-

Statistics of working (Those for the periods prior to 1889 will be found in Appendix 38 to the Railway Administration report for 1907).-

			ļ.	Gro-s ear	rnings.	Net car	nings.	Perce age of	net		-	İ	
Year.	Mile- nge open at end of	Total capit inclu ling to end (year, i.e., (i) lines o (ii) lines p wholly constru	Buspense, of each outlay on pen, and artly or under	Attribut-	Attribut-	Attrlbut-	Attribut-	earning on to capt outlingiven column and	tal tal ny in ns (3)	Interest on Govern- ment	Gain or loss to Government pertaining to	Earn- lngs per mile per	Pro- por- tion of expenses to
,	each year.			able to the Durbar.	able to Govern- ment.	able to the Durbar.	able to Govern- ment.	On capi- tal	On capi- tal	capital.	each year.	weck.	earn-
		Contributed by the Bhopal Durbar.	Contribut- ed by Govern- ment.					con- tribut- ed by the Durbar.	con- tribut- ed by Gov- ernment.				
1	2	3	4	5	a	7	8	0	10	11	12	13	14
	Miles	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	1	}	Rs.	Rs.	Rs.	
1889 ·	57:11 57:11	48,40,846 50,00,000	12,50,000 12,65,077	2,67,036 2,07,040	70,163 87,765	18,351 56,003	-5,422 -16,572	::	::	50,000 50,351	55,422 66,923	117 129	106.85
1891 • 1892 • 1893 • 1894 • 1895 •	57·11 57·11 57·11 57·11 57·30	50,00,000 50,00,000 50,00,000 50,00,000 50,00,000	15,13,568 17,46,208 20,25,058 21,71,496 22,47,963	4,60,431 4,47,797 4,24,236 3,80,217 3,18,074	1,50,884 1,53,000 1,60,162 1,61,638 1,42,658	1,73,154 1,05,883 1,30,025 1,44,607 1,02,821	48,607 56,397 52,038 61,455 46,114	3·46 3·32 2·62 2·89 2·06	3·21 3·23 2·57 2·83 2·05	57,713 69,131 78,429 85,509 89,323	-9,106 -12,734 -26,391 -22,054 -43,209	182	60.52 63.02 69.17 60.19 67.67
1896 • 1897 • 1898 • 1899 • 1900 •	57:39 57:39 57:39	50,00,000 50,00,000 50,00,000 50,00,000	22,71,877 22,97,134 23,24,365 23,61,938 23,87,339	3,61,363 3,31,379 4,17,010 4,47,225 5,35,369	1,63,688 1,52,215 1,93,364 2,09,611 2,55,120	1,38,532 1,33,096 1,71,375 1,79,444 2,67,288	62,744 61,135 79,435 84,080 1,27,332	2.77 2.66 3.43 3.59 5.35	2.76 2.66 3.42 8.56 5.33	90,107 91,805 92,477 93,303 95,293	1	204 228 265	61.66 59.84 58.90 59.88 50.08
1901 1902 1903	57·39 57·39 57·39	50,00,000 50,00,000 50,00,000 50,00,000	25,46,891 28,02,330 30,92,697 31,52,907 31,76,934	5.85.152	2,92,861 3,46,103 3,77,177 3,95,734 3,25,037	2,88 638 3,16,683 3,21,328 3,22,374 2,67,050	\pm 1.71.236	6.42	5.68 6.11 6.19 6.28 6.27	98,899 1,06,632 1,17,285 1,20,127 1,23,241	+44,06	338 348 294	50.37 49.18 49.98 48.62
1906 1907 1903 1909 1910	57.30 57.30 57.30 57.30 57.30 57.30	50,00,000 50,00,000 50,00,000 50,00,000 50,00,000 50,00,000	32,57,841 33,98,742 35,34,132 36,27,405 37,52,643 38,28,934	5,66,833 7,32,284 6,11,033 6,50,553 7,66,302 7,34,374 9,09,768	3,60,294 4,83,559 4,29,276 4,68,717 5,70,169 5,58,428 7,09,010	2,81,370 3,44,438 2,31,223 2,75,510 3,33,930 3,20,073 4,08,683	2,27,071 1,62,305 1,98,456 2,47,905 2,50,156	5·51 6·68 6·58	5·49 6·69 4·59 5·47 6·61 0·53 8·13	1,25,070 1,04,145 1,19,624 1,20,102 1,23,711 1,28,262 1,32,749	+42,678	2 407 3 349 4 375 4 448 8 439	53.60 62.17 57.60 56.40
187 qqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqq	50.00 50.00	2 50,00,000 2 50,000,000 2 50,000 2 50,000,000 2 50,000,00	30,41,321 40,62,346 40,65,701 40,65,701 40,94,55 40,94,55 40,94,55 41,55,17 44,155,17 44,154,17 61 44,84,43 61 61 61 61 61 61 61 61 61 61 61 61 61	2,09,528 2,09,528 3,00,193 3,00,193 3,00,193 3,00,193 3,121,10,103 13,15,123 13,15,123 14,13,127,047 15,75,125 16,13,45,721 16,13,	7,05,091 5,38,468 6,58,698 7,87,907 11,10,515 11,10,515 11,20,6,06 3 12,06,06 3 12,27,30 3 12,25,68 4 13,09,71 2 16,01,82 5 11,88,01 11,23,5 5 11,88,01 11,23,5 7 11,62,89 7 11,62,89 7 11,62,89 7 13,43,05 1 13,43,05 1 13,43,05 1 13,43,05 1 13,43,05 1 13,43,05 1 13,43,05 1 13,43,05 1 13,43,05 1 13,43,05 1 11,17,08	2,43,05 3,43,35 4,46,26 5,581,93 7,4,05,33 7,1,150,25 4,82,34 1,83,34 1,83,3	0 2,01,762 2 2,80,306 0 3,65,28 7 4,05,29 9 4,77,38 5 4,10,81 1 1,03,21 1 1,03,21 1 1,03,21 2 5,50,56 0 4,27,33 3,80,22 5,80,50 0 4,27,33 3,80,22 5,80,50 0 4,27,31 0 4,33,80 0 5,30 0 6,30 0 7,30	0 6-97 6 6-97 6 6 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6	2:30 7:19 12:35 6:07 8:72 6:92 7:10 4:70 6:60 7:00 6:60 7:00 6:60 7:00 7:00 8:11	1,57,70 1,58,82 1,62,31 1,64,27 1,72,56 1,78,44 1,84,82 2,03,88 0,2,11,92 0,70,50 7,2,66,12 2,69,23 12,68,69 12,68,69	1,40,00 +60,16 +1,88,72 +2,30,72 +3,36,72 +3,23,72 +3,36,11 +2,08,41 +1,45,48 +1,45,48 +1,45,48 +1,45,65 41,165,65 +1,763,8 1,42,62,4 +1,763,6 1,42,62,4 +1,763,6 1,42,62,4 +1,63,6 1,42,6 1,43,6	3	0

(a) Represent the figures for 13 months, i.e., from March 1932 to March 1933, vide letter No. B. 2 R. 4-25, dated the 15th June 1933, from the Chief Accounts Officer, G. I. P. Rallway.

† Revised figures.

(c) Bhopal-Ujjain railway (5' 6" gauge)—

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.
Bhopal to Ujjain	11-11-95	113-46	113·46

(c) Bhopai-Ujjain railway (5' 6" gauge)—contd.

Details of construction-

Permanent-way.—The permanent-way consists of 75-lb. flat-footed steel rails on transverse steel sleepers.

Ballast.—The line is fully ballasted throughout with broken stone.

Fencing.—The line is fenced only at, and in the vicinity of stations, towns and important level crossings.

Curves.—There are no curves with a radius of less than 2,865 feet.

Gradients.—The ruling gradient is 1 in 150.

Agreements and contract-

On the termination of the contract with the late Great Indian Peninsula Railway Company the line was brought under direct State management with effect from the 1st July 1925, the Secretary of State having the authority to maintain and work the line either by the Agency of a railway company or the State under the terms of the following contracts:—

- Agreement, dated the 4th August 1896 (called the principal contract), between the Government of Her Highness the Begum of Bhopal and the Indian Midland Railway Company, as to the maintenance, management and working, by the Company, of the Bhopal-Parbati section of the Bhopal-Ujjain railway as part of the Company's undertaking.
- Agreement, dated the 4th August 1896 (called the principal contract), between the Government of His Highness the Maharaja Scindia of Gwalior and the Indian Midland Railway Company, as to the maintenance, management and working, by the Company, of the Parbati-Ujjain section of the Bhopal-Ujjain railway as part of the Company's undertaking.
- Corrigendum to the Agreement dated the 4th August 1896 as to compiling accounts and statisticannually instead of half-yearly, but the net earnings will be paid to His Highness' Governmen every half-year.
- Contract, dated the 21st December 1900, between the Sccretary of State and the Great Indian Peninsula Railway Company, as to the maintenance, management and working, by the Company, of the railways known as the Great Indian Peninsula railway system and the Indian Midland railway system, and the subsidiary lines included therein.
- Memorandum No. 2653-I. B., dated the 1st July 1902, from the Government of India in the Foreign Department, to the Government of India in the Public Works Department, intimating the acceptance by Her Highness the Begum of Bhopal of the provisions of clauses 28 and 29 of the contract of the 21st December 1900, between the Secretary of State and the Great Indian Peninsula Railway Company, in lieu of those of clause 15 of the agreement of the 4th August 1896, between Her Highness' Government and the Indian Midland Railway Company, as to the method of arriving at the working expenses of the Bhopal-Parbati section of the Bhopal-Ujjain railway.
- Agreement, dated the 31st January 1911 (supplemental to the agreement of 1896), between the Secretary of State and the Government of Her Highness the Begum of Bhopal, as to the substitution of "Secretary of State," for "Indian Midland Railway Company," as a party to the agreement of 1896.
- Agreement, dated the 20th March 1911 (supplemental to the agreement of 1896), between the Secretary of State and the Government of His Highness the Maharaja Scindia of Gwalior, as to the substitution of "Secretary of State," for "Indian Midland Railway Company," as a party to the agreement of 1896.

Main provisions of agreements and contract—

- (i) Land.—Provided free of cost by the Bhopal and Gwalior Durbars for the portions of the railway in their respective territories.
- (ii) Government aid.—The Bhopal-Parbati section is owned by the Bhopal Durbar, and the Parbati-Ujjain section by the Gwalior Durbar, each of which provides the funds for additional works, alterations in existing works not of the nature of repairs, and expenses other than those due to ordinary wear and tear incidental to the use and working of the railway and works and the conveyance of traffic thereon. The line was managed, maintained, stocked and worked by the Great Indian Peninsula Railway Company up to 30th June 1925 as part of the Indian Midland Railway system of the Company's undertaking and the line was brought under direct State management on the termination of the contracts with the Company with effect from 1st July 1925.
- (iii) Terms of working.—For the Bhopal-Parbati section the charges for working are represented by a sum which bears the same proportion to the whole of the working expenses attributed to the Indian Midland Railway section including branches, as the gross receipts of the section of the Bhopal Parbati section bear to the whole gross receipts of the Indian Midland railway section including branches.

For working the Parbati-Ujjain section the Great Indian Peninsula railway retains 50 per cent. of its gross receipts for each half-year. The gross earnings of the section are also charged with rent for the use of the station and accommodation provided by the Bombay, Baroda

(c) Bhopal-Ujjain Railway (5' 6" gauge)—concld.

Main provisions of agreements and contract-concld

and Central India railway at Ujjain Junction station, and with rent for the telegraph lines and instruments when not the property of the section.

(iv) Distribution of profits.—The net earnings of the Bhopal-Parbati section belong to the Bhopal Durbar; and those of the Parbati-Ujjain section, to the Gwalior Durbar.

(v) Rates and fares .-

(vi) Special obligations as to the conveyance of—
 (a) Mails, troops, police, high Government officials and Government stores—

as on the Great Indian Peninsula railway.

(b) Government bullion and coin, and the persons in charge thereof—

- (vii) Power of the Government to determine agreements and contract— The agreements are termin(viii) Powers of the Durbars to determine agreements— able, on the expiry of ten years from the dates of opening of the respective sections throughout for all kinds of public traffic, on 12 months' notice in writing given by either party to the other on the 30th June or 31st December in any year.
- (ix) Term of agreements and contract.—Ten years, from the date of opening of the respective sections throughout for all kinds of public traffic.

Statistics of working (Those for the periods prior to 1913-14 will be found in Appendix 3s to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14.)—

Year -	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction 3	Gross carnings.	Not earnings.	Percentage of not earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of experses to earnings.
	Miles.	Rs.	Rs.	Rs.		Rs.	
\$913-74 \$1914-15 \$1916-17 \$1916-17 \$1916-17 \$1917-18 \$1918-19 \$1918-19 \$1919-20 \$1920-21 \$1921-22 \$1922-23 \$1922-23 \$1922-23 \$1922-23 \$1922-23 \$1922-23 \$1922-23 \$1922-23 \$1922-23 \$1922-25 \$1926-26 \$1926-27 \$1927-28 \$1928-29 \$1928-29 \$1929-30 \$1930-31 \$1931-32 \$1933-34 \$1933-35 \$1935-36 \$1935-36 \$1935-36	113·27 113·27 113·27 113·27 113·28 113·28 113·28 113·28 113·28 113·28 113·28 113·29 113·29 113·29 113·29 113·29 113·29 113·29 113·29 113·28	78,82,524 78,79,430 78,82,465 78,87,205 79,00,130 79,08,478 79,19,385 79,32,577 79,41,406 79,45,639 79,49,712 79,62,413 79,65,5 :: 79,74,718 79,94,656 80,27,618 80,89,704 81,36,828 81,72,139 82,03,438 82,03,438 82,05,237 82,07,930 82,07,930	11,10,645 9,76,407 10,77,534 12,44,263 8,92,619 14,89,595 17,30,002 13,20,505 16,30,203 16,37,731 14,62,373 17,22,058 18,53,284 14,95,134 21,89,096 19,25,994 18,33,328 (a)20,35,774 23,60,359 22,85,198	5,12,648 4,27,881 5,04,090 6,01,113 7,01,233 7,86,132 5,45,712 5,74,552 6,02,878 6,48,075 *8,00,702 8,05,893 6,70,823 7,92,685 8,16,723 9,96,333 8,40,447 8,14,845 (a)9,14,957 10,62,747 10,33,911 11,52,876	6.50 5.43 6.39 7.62 5.40 8.86 9.93 6.88 7.23 8.72 8.15 10.60 10.12 8.41 9.92 10.16 12.32 10.33 9.97 11.15 12.94 12.60 14.05	189 146 183 212 162 253 294 224 260 278 248 202 315 253 308 314 372 327 311 346 400 387 425	\$3.84 58.18 53.22 51.88 52.92 54.50 58.67 62.45 57.69 53.51 50.52 55.13 56.35 55.86 54.48 56.36 55.55 55.06 54.98 54.70 54.02

⁽a) Represent the figures for 13 months, i.e., from March 1932 to March 1933, vide Chief Accounts Officer, G. I. P. Railway's letter No. B. 2/R. 4-25, dated the 15th June 1933.

* Revised figures.

(d) Bina-Goona-Baran railway (5' 6" gauge)—

Progress in opening-

Sections of railway.	Date of opening	Miles.	Total
1	2	3	4
From a point 32 D at mile 606.457 at Bina to junction with Bina-Gooma-Baran railway at mile 607.916.		1.45	
From the joint boundary of the Midland section of the Great Indian Peninsula and Bina- Goora-Baran railways, a point 2.00 miles from the centre of Bina station to Goona.	23-9-95	71.71	
From centre of Goona station (mile 216—3,402 feet) to end of Baran station (mile 290—2,850 feet).	15-5-99	73-90	
Total .			147.0

[†] Represents not earnings after deducting the direct charge against Bhopal-Ujjain Railway for rent of Ujjain Railway station and Government Telegraph instruments.

(d) Bina-Goona-Baran railway (5.6" gauge)—contd.

Details of construction -

Permai ent-way.—The line is laid with 75-lb. flat-footed steel rails, for about 109.54 miles on troughs and 36 miles on wooden sleepers, except 1.46 miles of 80 lbs. rails with C. I. pot sleepers.

Bellast.—The line is ballasted with broken stone and laterite.

Fencing.--The line from Bina to Goona i fenced. The Goona-Baran section is unfenced except at stations.

Curves.—There are no curves with a radius of less than 1,910 feet.

Gradients .- The ruling gradient is 1 in 25.

Agreements and contract-

- On the termination of the contracts with the late Great Indian Peninsula Railway Company, the line was brought under the direct State management with effect from the 1st July 1925, the Secretary of State having the authority to maintain and work the line either by the Agency of a railway company or the State under the terms of the following contracts:—
- Agreement, dated the 15th July 1896 (called the principal contract), between the Government of His Highness the Maharaja Scindia of Gwalior and the Indian Midland Railway Company, as to the maintenance, managem at and working, by the Company, of the Bina-Goona-Baran railway as part of the Company's undertaking (with clause 13 thereof modified as to maintenance of telegraphs under the authority of the letter from the Government of India to the Honourable the Agent to the Governor General for Central India, No. 596-R.T., dated the 20th June 1899).
- Corrigendum to the Agreement, dated the 15th July 1896, as to compiling accounts and statistics annually instead of half-yearly, but not earnings will be paid to His Highness' Government every half-year.
 - Agreement, dated the 20th February 1899 (called the principal contract), between the Government of His Highness the Maharao of Kotah and the Indian Midland Railway Company, as to the maintenance, management and working, by the Company, of the Chabra-Baran section of the Bina-Goona-Baran railway as part of the Company's undertaking.
 - Agreement, dated the 27th February 1899 (called the principal contract), between the Government of His Highness the Nawab of Tonk and the Indian Midland Railway Company, as to the management, maintenance and working, by the Company, of the Dharnaoda-Chabra section of the Bina-Goona-Baran railway as part of the Company's undertaking.
- Agreemen, dated the 12th May 1899 (called the principal contract), between the Government of His Highness the Maharaja Scindia of Gwalior and the Indian Midland Railway Company, as to the maintenance, management and working, by the Company, of the Goona-Dharnaoda section of the Bina-Goona-Baran railway as part of the Company's undertaking.
 - Contract, dated the 21st December 1900, between the Sceretary of State and the Great Indian Peninsula Railway Company, as to the maintenance, management and working, by the Company, of the railways known as the Great Indian Peninsula railway system and the Indian Midland railway system, and the subsidiary lines included therein.
- Memorandum No. 3529-I.B., dated the 20th September 1901, from the Government of India in the Foreign Department, to the Government of India in the Public Works Department, intimating the acceptance by the Kotah and Tonk Durbars of the provisions of clauses 28 and 29 of the contract of the 21st December 1900, between the Secretary of State and the Great Indian Peninsula Railway Company, in lieu of those of the contracts of the 20th and 27th February 1899, between the Kotah and Tonk Durbars and the Indian Midland Railway Company, as to the method of arriving at the working expenses, respectively, of the Chabra-Baran and Dharnaoda-Chabra sections of the Bina-Goona-Baran railway.
 - Agreements, dated the 16th March, 17th April and 29th June 1905, between the Government of His Highness the Maharaja Scindia of Gwalior and the Government of His Highness the Nawab of Tonk, as to the purchase, by the former from the latter, of the Dharnaoda-Chabra section of the Bina-Goona-Baran railway.
 - Agreement, dated the 12th January 1911, between the Secretary of State and the Government of His Highness the Maharao of Kotah, supplemental to the agreement of the 20th February 1899, between the Kotah Durbar and the Indian Midland Railway Company, as to the substitution of "Secretary of State," for "Indian Midland Railway Company," as a party to the agreement of 1899.
 - Agreement, dated the 20th March 1911, between the Secretary of State and the Government of His Highness the Maharaja Scindia of Gwalior, supplemental to the agreement of the 15th July 1896, between the Gualior Durbar and the Indian Midland Railway Company, as to the substitution of "Secretary of State." for "Indian Midland Railway Company," as a party to the agreement of July 1896.

(d) Bina-Goona-Baran railway (5' 6" gauge)—contd.

Agreements and contract-concld.

- Agreement, dated the 20th March 1911, between the Secretary of State and the Government of His Highness the Maharaja Scindia of Gwalior, supplemental to the agreement of the 12th May 1899, between the Gualior Durbar and the Indian Midland Railway Company, as to the substitution of "Secretary of State," for "Indian Midland Railway Company," as a party to the agreement of 1899.
- Agreement, dated the 20th March 1911, between the Secretary of State and the Government of His Highness the Maharaja Scindia of Gwalior, supplemental to the agreement of the 27th February 1899, between the Tonk Durbar and the Indian Midland Railway Company, as to the substitution of "Secretary of State." for "Indian Midland Railway Company," as a party to the agreement of 1899.
- Memorandum No. 3002-I.B., dated the 30th August 1913, from the Government of India in the Foreign Department, to the Government of India in the Railway Department, intimating the acceptance by the Gwalior Durbar of the arrangement come to between the Tonk Durbar and the Great Indian Peninsula Railway Company in 1901, for the purpose of arriving at the working expenses of the Dharnaoda-Chabra section of the Bina-Goona-Baran railway.
- Corrigendum to the agreement of 20th February 1899, as to the method of calculating the working expenses of the Chabra-Baran section with effect from 1st October 1917.

Main provisions of agreements and contract-

- Land.—Provided free of cost by the several Indian States for the portions of the railway in their respective territories.
- (ii) Government aid.—The Bina-Goona, Goona-Dharnaoda, and Dharnaoda-Chabra sections are owned by the Gwalior Durbar, and the Chabra-Baran section by the Kotah Durbar, each of which provides funds for additional works, alterations in existing works not of the nature of repairs, and expenses other than those due to ordinary wear and tear and incidental to the use and working of the railway and works and the conveyance of traffic thereon. The railway was managed, maintained, stocked and worked by the late Great Indian Peninsula Railway Company as part of the Company's undertaking up to the 30th June 1925 and on termination of the contract the line was brought under direct State management with effect from the 1st July 1925.
- (iii) Terms of working.—For working the Bina-Goona section, the Great Indian Peninsula Railway retains 50 per cent. of its gross receipts for each half-year. The gross receipts of the section are also charged with rent for works, etc., in sole and joint use at Bina junction as laid down in clause 10 of the agreement of the 15th July 1896, and with rent for telegraph lines and instruments when not the property of the railway.

For working the Goona-Dharnaoda section, the Great Indian Peninsula Railway retains out of its gross receipts a sum which bears the same proportion to the entire gross receipts of the section as the aggregate working expenses of the undertaking as a whole (including the Goona-Dharnaoda section) bear to the gross receipts of that system, for each half-year, subject to a limit of 50 per cent. of the gross earnings of the section.

For the Dharnaoda-Chabra section the Railway charges the same percentage of the entire gross receipts of that section as the aggregate working expenses of the whole system of the Railway bear to the gross receipts of that system.

For working the Chabra-Baran section the Great Indian Peninsula Railway retains out of its gross receipts a sum which bears the same proportion to the entire gross receipts of the section as the aggregate working expenses of the whole system of the Railway bear to the gross receipts of that system, for each half-year, subject to a limit of 50 per cent. of the gross carnings of the section. The said sum will not include rent on the capital cost of telegraph lines and instruments provided by the Government Telegraph Department.

- (iv) Distribution of profits.—The net receipts of each section are paid over to the Durbar to which such section belongs.
- (v) Rates and fares -
- (vi) Special obligations as to the conveyance of.—

 (a) Mails, troops, police, high Government officials and Government stores—

 (b) Government bullion and coin, and the persons in charge thereof—

 as noted under Great Indian Peninsula Railway.
- (vii) Power of the Government to determine agreements—
 (viii) Power of the Durbars to determine agreements—
 (ix) Term of agreements—
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 J where the Agreement, dated the 20th February 1899, is terminable on the 31st March or 30th September in any year on 12 months' notice being given in writing by either party to the other.

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(d) Bina-Goona-Baran railway (5' 6" gauge)—concld.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Rallway Administration Report for 1807 and in Appendix 1 to the Report for 1913-14.)

Y	Tear 1		Mdcage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines opens, and (ii) lines partly or wholly under construction.	Gross tarnings.	Net enrings.	Percentage of net carnings on total capi- tal outlay given in column (3.)	Eatologa per mile per week.	Proportion of expenses to earnings.
			Miles.	Re.	P.a.	Rs.		Ra.	
1913-14			145.61	1,00,42,700	6,43,716	2,85,378	2.84	81	53.50
1914-15			145.61	1,00,50,037	4,46,962	1,92,056	1.01	69	57.03
1915-16			145.61	1,00,52,413	5,71,651	2,51,750	2.50	72	53.62
1916-17			145.61	1,00,53,152	5,66,179	2,72,316	2.71	76	52.74
1917-18			147 07	1,00,53,795	4,02,319	2,20,970	2.20	60	52.20
1918-19			147 · 07	1,00,68,646	5,21,700	2,39,133	2.37	66	62.34
1919-20	•	. !	147.07	1,00,91,525	5,96,505	2,48,193	2.46	69	62.86
1020-21		. 1	147 07	1,00,03,709	4,28,735	2,25,316	2.23	65	54.81
1921-22	•	.	147.07	1,01,16,018	5,04,001	2,30,251	2.28	60	56.08
1022 - 23		. !	147.07	1,01,07,870	77,01,494	3,23,574	3.20	92	63.87
1923 24		. 1	147 07	1,00,95,013	5,63,229	2,61,867	2.62	74	52-97
1924-25	•	.	147.07	1,01,78,086	8,26,106	*3,95,632	3.84	108	52-11
1925 26		.	147.07	1,01,86,121	6,84,413	3.16,202	3.40	89	53.80
1920-27			147.07	1,01,89,883	5,95,869	2,77,072	2.73	78	53-40
1027-28	•	• 1	147 07	1,02,10,955	6,02,489	2,78,312	2.72	79	63.81
1928-29		. 1	147.07	1,02,11,229	7,03,273	3,28,062	3.22	92	53.22
1929-30			147.07	1,02,17,875	5,99,496	2,81,077	2.75	78	53-11
1930-31		. !	147:07	1,02,17,177	5,53,788	2,55,212	2.50	72	53.91
1931-32		. !	147.07	1.02.09,229	6,98,052	3,26,338	3.20	01	63.25
1932-33	•	. !	147:07	1,02,09,025	(a)7.41.092	(a)3,50,676	3.43	07	52-87
1933-34		• '	147.07	1,02,16,117	6,79,557	3,18,141	3.11	89	63.18
1934-35	•		147.07	1,02,16,117	7,25,058	3,41,466	3.31	95	52.96
1935-36			147:07	1,02, 16,745	6.65,992	3,15,211	3.09	67	52.67
1936-37	<u> </u>		147.07	1,02,14,589	0,20,263	4,45,226	4.30	120	51.62

^{*} Revised figures.

- (a) Represent the figures for 13 months, i.e., from March 1932 to March 1933, vide Chief Accounts Officer, G. I. P. Railway's letter No. B. 2 R. 4-25, dated the 16th June 1933.
 † Represent net earnings after deducting the direct charge against the Bina-Baran Railway for interest on works at Bina and
- rent of Government Telegraph instruments.

(c) Darwa Pusad Railway (2' 6" gauge).-

Progress in opening.

The state of the s	Section of railway.	Date of opening	Miles 3	Total,
Darwa to Pusad		15-12-31	42.80	42.80

Details of construction-

Permanent-way.—The permanent-way consists of second hand 80 lbs. F. F. rails on wooden sleepers.

Ballast.—The line is ballasted with broken stone in cutting and moorum in banks.

Fencing.—Only the station yards and A Class level crossings are fenced.

Curves—The sharpest curve is of 573 feet radius.

Gradients.—The ruling gradient is 1 in 100 compensated.

Contracts-

It is a State line worked by the State.

Statistics of working-[Those for the period 1931-32 to 1935-36 are included under G. I. P. Railway (5'.6' gauge)].

Year.	Milenge open at end of each year.	Total Capital outlay, including suspense, to lend of each year, i.e., outlay on (1) lines open and (ii) lines partly or wholly under	Gross earnings.	Net carnings.	Percentage of net earnings on total capital out- lay, or capital at charge given in column (3).	Interest.	Gain (+) or lors (-) to the State pertaining to each year.	Farnings per mile per week.	Proportion of expenses to earnings.
1	_ 2	construction.	4	5	6	7	8	9	10
1936-37	42.80	(a)31,76,057	96,132	-13,070	-0.41	1,53,404	-1,66,474	43	113-59

(a) Repayments construction outlay only. Expenditure from 1634-35 is reciged in the G. I. P. Railway expenditure.

(f) Dhond-Baramati railway (2' 6" gauge)—

Agents-Messrs. Shapoorji Godbole & Co., Bombay.

Date of registration of the Company-1912.

Progress in opening-

	 Se	ction	of rail	lway.							Date of opening.	Miles.	Total.
			1								5	3	4
Dhond to Baramati	•	•		•	•	•	•	•	•	•	20-5-14	27.30	27.30

(f) Dhond-Baramati railway (2' 6' gauge)—contd.

Details of construction-

Permanent-way.—The permanent-way consists of 35-lb. flat-footed steel rails laid on pressed steel peapod sleepers.

Ballast.—The line is ballasted with stone and the banks with moorum.

Fencing.—Only the station yards are fenced.

Curves.—The sharpest curve is of 478.3 feet radius.

Gradients.—'The ruling gradient is 1 in 100.

Contracts-

On the termination of the contracts with the late Great Indian Peninsula Railway Company the line was brought under direct State management with effect from the 1st July 1925, the Secretary of State having the authority to maintain and work the line either by the Agency of a railway company or the State under the terms of the following contracts:-

Dated the 15th January 1919, between the Secretary of State and the Dhond-Beramati Railway Company as to the construction and working of the Dhond-Baramati railway.

Corrigendum to the Agreement, dated the 15th January 1919, as to compiling accounts and statistics annually instead of half-yearly. An ad interim payment of 90 per cent. of the approximate amount of net earnings being paid every half-year to the Agent of Dhond-Baramati railway.

Dated the 5th February 1920, between the Secretary of State and the Great Indian Peninsula Railway Company, as to the working and maintenance of the line.

Main provisions of contracts -

- (i) Land.—Land in British territory provided free of cost.
- (ii) Government aid,-The Government shall allow to the Company at the end of each year by way of rebate such a sum not exceeding in any year the net earnings of the Great Indian Poninsula railway from all traffic (except stores for maintenance or working) interchanged between the Great Indian Peninsula railway and the Dhond-Baramati railway as shall, together with the net earnings of the Company for the said year, make up an amount equal to interest for such year at a rate of 5 per cent. per annum on the actual expenditure charged in the capital account. When the net earnings do not suffice to pay interest more than at the rate of 5 per cent. per annum for the year, the Company shall be paid by the working agency out of the working expenses the sum of Rs. 6,000 on account of office expenses and expenses of management and direction of the Company and also such legal expenses as may be incurred by the Company and approved by Government and as are debitable to Revenue. When the net earnings exceed 5 per cent. on the capital expenditure and if such excess is insufficient to meet the office expenses and expenses of management up to the limit of Rs. 6,000, the balance will be paid to the Company by the working agency out of the working expenses.
- (iii) Terms of working.—The line is supplied with plant and machinery, other than fixed machinery, and is managed, worked and maintained in respect of the railway, station yards, sidings, rolling stock, etc., for 45 per cent. of its gross earnings.
- (iv) Distribution of profits.—When the net earnings of the Company exceed the minimum amount sufficient to pay interest at the rate of 5 per cent. per annum such excess shall be applied for or towards the payment of office expenses and expenses of management and direction of the Company during the year up to a limit of Rs. 6,000 and the balance, if any, shall be divided equally between Government and the Company. The Government share is payable to the Great Indian Peninsula Railway.
- (v) Rates and fares.—As under the Great Indian Peninsula Railway.
- (vi) Special obligations as to the conveyance of -
 - (a) Mails, troops, police, high Government officials and Government stores--
 - (b) Government bullion and coin, and the persons in telegraphs and telegraphic appliances, be carried on in the same manner and subject to the same regulations and control by the Secretary of State as the like business on the Great Indian Peninsula railway.

All business connected with the management of the line and conducting the traffic thereon, including police and shall in all respect, as far as practicable,

- (vii) Power of the Government to determine contract.—The Government may, by giving not less than twelve months' "notice of purchase" determine the contract either on the 30th September 1944 or on the 30th September in the last year of any subsequent period of ten years.
- If the contract is determined by 'notice of purchase,' the Government shall pay to the Company 25 times the amount of the average of the yearly net earnings (excluding payments on account of rebate) derived by the Company during three years immediately preceding the time at which the contract shall be determined, subject to a limit of 20 per cent. in excess of, but not less than, the total capital expenditure of the Company.

(f) Dhond-Baramati railway (2' 6" gauge)-concld.

Main provisions of contracts-concld.

The Government may also, by giving twelve months' "notice of special purchase," determine the contract at any time in the following cases:—

- (a) when it is considered desirable that the gauge of the railway should be altered;
- (b) when it is considered desirable to convert the railway into a line of through communication; and
- (c) when it is considered desirable to extend the railway (without altering the gauge or making the line part of a through route), and the Company is unable or unwilling to supply the necessary capital for such extension.

If the contract be determined by 'notice of special purchase' the Government to pay to the Company 25 times the average of the yearly net earnings (excluding payments on account of relate) of the Company during the last preceding three years, or 115 per cent. of the total capital expenditure of the Company, whichever may be the greater.

(viii) Power of the Company to surrender contract .- Nil.

(ix) Term of contract [if not determined under (vii)].—None specified.

Statistics of working-

Year.	Mileage open at end of each year	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gros- carnings.	Net earnii gs.	Percentage of net carnings on total capital outlay given in column (3).	Rebate from (+), or share of sur plus profits payable to (-), the Great Indian Peninsula railway.	Total income.	Percent- age of total income on total capi- tal outlay given in column (3).	Earning	Proportion of expenses to arnings.
1	2	3	4	5	6	7	8	9	10	11
1914-16 1915-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1923-24 1924-25 1926-27 1926-27 1927-28	Miles. 27-26 27-26 27-26 27-26 27-26 27-26 27-26 27-26 27-26 27-26 27-26 27-26 27-26 27-26	Rs, 11,61,373 11,61,931 11,62,368 11,74,064 11,77,354 11,79,354 11,79,354 11,79,354 11,79,354 11,79,364 11,79,365 11,80,639 12,28,568 12,30,729	18a. 50,233 68,289 78,216 95,049 1,25,062 2,07,897 1,36,818 1,59,660 1,92,567 1,87,919 1,81,995 1,86,314 2,03,188	Re. 27,628 37,559 43,035 52,277 68,781 1,14,343 75,266 87,813 1,05,012 1,03,355 1,00,097 1,02,473 1,11,753	Rs. 2·34 3·23 3·71 4·50 5·85 6·39 7·45 8·95 8·48 8·68 8·68 8·69 8·37	Rs. +12,448 +20,948 +14,507 -5,841 -2,040 -24,738 -5,149 -11,423 -20,472 -18,608 -17,907 -21,436 -16,685 -17,907	Rs. 40,076 58,507 57,512 58,118 00,744 89,605 70,117 76,390 85,440 84,747 83,412 84,506 90,317	8s. 3-39 5-03 4-96 5-08 5-08 7-61 5-95 6-48 7-24 7-18 7-07 7-16 7-35 6-99	Rs. 25 48 65 67 88 147 97 113 136 132 128 131 143 132	45.00 45.00 45.00 45.00 45.00 45.00 45.00 45.00 45.00 45.00 45.00
1928-29 1929-30 1930-31 1931-32 1932-33 1933-34 1934-35 1935-36 1936-37	27·26 27·26 27·26 27·26 27·26 27·20 27·30 27·30 27·30	12,40,225 12,40,225 12,40,006 12,55,476 12,59,664 12,69,664 12,69,664 12,59,564	1,85,684 1,73,842 1,60,211 1,30,344 1,14,072 1,22,559 1,00,285 1,21,187 1,17,778	1,02,126 95,613 88,116 71,689 62,740 67,407 55,167 66,653 61,778	8·23 7·71 7·20 5·69 4·98 5·35 4·38 5·29 5·14	-17,058 -13,801 -9,671 -1,355 +6,238 +1,571 +13,821 +2,325 +4,200	85,068 81,809 78,445 70,334 68,978 68,978 68,978 68,978 68,978	6.86 6.60 6.25 5.58 5.48 5.48 5.48 5.48 5.48	131 123 113 92 80 86 71 85 83	45.40 45.40 45.00 45.00 45.00 45.00 45.00 45.00

(g) Ellichpur-Yeotmal railway (2' 6' gauge)-

Agents.-Messrs. Killick, Nixon & Co., Bombay.

Date of registration of the Company.—1910.

This line was constructed by the late Great Indian Peninsula Railway Company for a Branch Line Company called the Central Provinces Railways Company.

Progress in opening-

			Section	ons of	railwa	ay.						Date of opening.	Miles.	Total
*		1										2	3	4
Ellichpur to Murtajapur Murtajapur to Karanja Karanja to Yeotmal		<i>:</i>				:		:		:	:	1-12-13 1-11-14	47·81 19·82	
Zaranja to reotmat	•	•	•	•	•				ILEAGI		•	30.9-15	50.18	117-8

(g) Ellichpur-Yeotmal railway (2' 6" gauge)—contd.

Details of construction.-

Permanent-way.—The permanent-way consists of 35-lb. flat-footed steel rails laid on pressed steel peapod sleepers.

Ballast.—The line is chiefly ballasted with broken stone and sand. Banks at places are ballasted with moorum.

Fencing.—Only the station yards are fenced.

Curves.—The sharpest curve is of 4.78 feet radius.

Gradients.—The ruling gradient is 1 in 100.

Contract-

On the termination of the contracts with the late Great Indian Peninsula Railway Company the line was brought under direct State management with effect from the 1st July 1925, the Secretary of State having the authority to maintain and work the line either by the Agency of a railway company or the State under the terms of the following contracts:—

Dated the 27th March 1916, between the Secretary of State and the Central Provinces Railways Company, as to the construction, maintenance and working of the Ellichpur-Yeotmal railway.

Corrigendum to the Agreement, dated the 27th March 1916, as to compiling accounts and statistics annually instead of half-yearly. An ad interim payment of 90 per cent. of approximate amount of net earnings being paid every half rear to the Agents, Ellichpur-Yeotmal railway.

Dated the 15th December 1916, between the Secretary of State and the Great Indian Peninsula Railway Company, as to the maintenance and working of the Ellichpur-Yeotmal railway.

Dated the 3rd October 1917 (supplemental to the contract of 27th March 1916), between the Secretary of State and the Central Provinces Railways Company, as to the construction and working of the Pulgaon-Arvi railway as part of, and included in, the original undertaking.

Dated the 2nd August 1918 (supplemental to the contract of 15th December 1916), between the Secretary of State and the Great Indian Peninsula Railway Company, as to the maintenance and working of the Pulgaon-Arvi railway.

Main provisions of contracts-

- (i) Land.—Land in British territory provided free of cost.
- (ii) Government aid.—The Government shall allow to the Company at the end of each year by way of rebate such a sum, not exceeding in any year the net earnings of the Great Indian Peninsula railway, from all traffic, originating or terminating at stations of this railway, as shall together with the net earnings of the Company make up an amount equal to interest for the year at a rate of 5 per cent. per annum on the paid up share capital of the Company. When the net earnings do not suffice to pay interest at 5 per cent., the Company shall be paid by the working agency out of the working expenses the sum of Rs. 15,000 for each year towards the office expenses and expenses of management and direction of the Company and also pay all such legal expenses as shall have been incurred by the Company and are debitable to Revenue. When the net earnings excluding rebate exceed the interest at 5 per cent., such excess, if less than Rs. 15,000 plus the amount of legal expenses, shall be applied towards the office expenses and expenses of management and direction and the legal expenses and the balance to make up the sum of Rs. 15,000 and the legal expenses shall be paid by the working agency out of the working expenses.
- (iii) Terms of working.— The line is supplied with plant and machinery, other than fixed machinery, and is managed, worked and maintained in respect of the railway station yards, sidings, rolling-stock, etc., for 45 per cent. of its gross earnings.
- (iv) Distribution of profits.—When the net earnings of the Company exceed the minimum amount sufficient to give a return of 5 per cent. per annum such excess shall be applied towards the payment of office expenses, expenses of management and direction of the Company up to a limit of Rs. 21,000 and the balance, if any, shall be divided equally between Government and the Company. The Government share is payable to the Great Indian Peninsula Railway.
- (v) Rates and fares.—As under the Great Indian Peninsula Railway.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores—
 - Government stores—

 (b) Government bullion and coin, and the persons in charge thereof—
 graphic appliances, shall in all respects, as far as practicable, be carried on in the same manne and subject to the same regulations and control by the Secretary of State as the like business on the Great Indian Peninsula railway.

All business connected with the

(vii) Power of the Government to determine contract.—The Government may, by giving not less than twelve months' "notice of purchase", determine the contract on the 31st March 1947 or on the 31st March in the last year of any subsequent period of ten years.

(q) Ellichpur-Yeotmal railway (2' 6" gauge)—concld.

Main provisions of contracts-concld.

If the contract is determined by "notice of purchase," the Government shall pay to the Company 25 times the amount of the average yearly net earnings (excluding payments on account of rebate) derived by the Company during the three years immediately preceding the time at which the contract shall be determined, subject to a limit of 20 per cent. in excess of, but not less than the total capital expenditure of the Company.

The Government may also, by giving twelve months' "notice of special purchase", determine the contract at any time in the following cases:—

- (a) when it is considered desirable that the gauge of the railway should be altered;
- (b) when it is considered desirable to convert the railway into a line of through communication; and
- (c) when it is considered desirable to extend the railway (without altering the gauge or making the line part of a through route), and the Company is unable or unwilling to supply the necessary capital for such extension.
- If the contract be determined by "notice of special purchase", the Government to pay to the Company 25 times the average yearly net earnings (excluding payments on account of rebate) of the Company during the last preceding three years, or 115 per cent. of the total capital expenditure of the Company, whichever may be the greater.
- (viii) Power of the Company to surrender contracts.-Nil.
- (ix) Term of contract [if not determined under (vii)].- None specified.

Statistics of working (including Pulgaon-Arvi railway from 1917-18) .--

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in Column (3).	Difference be- tween Miscel- ianeous Receipts not credited to earnings and half share of interest charges on joint works not included in the percentage for working expense paid to the working Agency.	Rebate from (+), or share of surplus profits payable to (), the Great Indian Peninsula railway.	Total income.	Percent- age of total' income on total capi- tal outlay given in column (3).	Earn- ings per mile per week.	Propertion of expenses
1	2	3	4	5	ថ	7 .	১	В	io	11	12
1913-14 1914-15 1915-16 1916-17 1917-19 1918-10 1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27 1927-28 1928-29 1929-30 1930-31 1931-32 1932-33 1933-34 1934-35	130·49 130·49 130·40 130·64 130·64 130·64 130·64 130·64 130·64 130·64	Rs. 24,35,662 62,43,618 66,53,204 67,58,039 83,85,992 84,02,787 84,40,585 84,89,774 86,12,791 86,44,709 86,12,993 86,83,642 88,61,181 91,00,186 91,29,844 91,21,598 91,49,995 92,10,946 92,86,802 93,67,788 93,61,295	Rs. 65,505 2,86,101 4,46,479 5,96,016 6,67,556 9,11,563 12,72,526 12,72,526 14,126,048 14,11,348 14,16,598 14,10,668 12,87,332 12,54,412 13,65,861 15,09,041 12,32,389 6,42,946 7,71,921 6,19,516 5,99,433 5,97,802	Rs. 36,027 1,57,356 2,45,563 3,28,304 3,59,455 5,05,618 7,02,095 7,41,962 6,91,715 7,85,569 7,76,241 9,60,079 8,19,868 7,08,033 6,89,927 7,51,224 8,29,973 6,77,814 3,57,330 4,24,557 3,40,734 3,29,688 3,28,791	Rs. 1·48 2·52 3·60 4·86 4·29 6·02 8·32 8·14 9·09 11·15 9·44 7·99 7·58 8·23 9·10 7·41 3·88 4·57 3·67 3.67	+1,69; +14,653 +18,641 +12,609 +11,204 +11,110 +10,013 +4,411 +3,527 +1,656 +532	+16,590 +32,115 -32,274 -1,29,428 -1,49,370 -1,23,380 -1,52,127 -1,44,085 -2,35,863 -1,63,470 -1,15,089 -91,963 -1,75,089 -98,962 +1,17,657 +56,121 +1,40,754 +1,53,683	5,89,962 4,85,000 4,85,089	Rs. 1·48 2·52 3·76 5·10 4·67 5·63 6·78 6·98 7·33 7·31 8·41 7·58 7·01 6·77 6·87 7·30 6·45 5·27 5·22 5·18 5·16	Rs 196 82 73 98 92 126 175 186 173 197 197 173 189 208 170 89 106 55 83 82	45-00 45-00 45-00 44-00 *46-12 †44-55 ‡44-83 45-00 45-

The increase of 1.15 per cent. is due to the hire of rolling-stock paid to the Pachora-Jamner railway.

(h) Pachora-Jamner railway (2' 6" gauge)-

Agents.—Messrs. Shapoorji Godbole & Co., Bombay.

Date of registration of the Company.—10th February 1915.

Sanction to the construction of this line by the late Great Indian Peninsula Railway Administration, for the Pachora-Jamner Railway Company, was conveyed in Railway Board's Notification No. 64, dated the 17th March 1915.

[†] The decrease of 0.47 per cent, is due to the hire of rolling-stock received from the Pachora-Jamner railway.

[†] The decrease of 0.17 per cent. Is due to the hire of rolling-stock received from the Pachora-Jamner milway

(h) Pachora-Jamner railway (2' 6" gauge)-contd.

Progress in opening-

Sections of railway.												Date of opening.	Miles.	Total.
1											2	3	4	
Pachora to Shendurni Shendurni to Phaur Phaur to Jamner	:	:	•	:	:	:	•	:			•	1-4-18 21-10-18 24-3-19	17·59 7 03 10·00	
								"OT	AL					34.62

Details of construction -

Permanent-way.—The permanent-way consists of second-hand 69-lbs. D. H. steel rails laid on second-hand cast iron pot sleepers.

Ballast.—The line is ballasted with moorum and sand.

Fencing.—Fencing has only been provided for 300 feet on each side of first class level crossings.

Curves .- The sharpest curve is of 1,910 feet radius.

Gradients .-- The ruling gradient is 1 in 100.

Contracts-

On the termination of the contracts with the late Great Indian Peninsula Railway Company the line was brought under direct State management with effect from the 1st July 1925, the Secretary of State having the authority to maintain and work the line either by the Agency of a railway company or the State under the terms of the following contracts:—

Dated the 22nd May 1919, between the Secretary of State and the Pachora-Jamner Railway Company—

Dated the 18th February 1921, between the Secretary of State and Jamner railway.

the Great Indian Peninsula Railway Company—

as to the construction, maintenance and working of the Pachora-Jamner railway.

Corrigendum to the agreement, dated the 22nd May 1919, as to compiling accounts and statistics annually instead of half-yearly. An *ad interim* payment of 90 per cent. of the approximate amount of net earnings being paid every half-year to the Agents, Pachora-Jamner railway.

Main provisions of contracts .-

- (i) Land.—Land in British territory provided free of cost.
- (ii) Government aid.—The Government shall allow to the Company at the end of each year, by way of rebate, such a sum not exceeding in any year the net carnings of the Great Indian Peninsula Railway derived from all traffic interchanged between the Great Indian Peninsula Railway and the Pachora-Jamner Railway as shall, together with the net receipts of the Company for the said year, make up an amount equal to interest for such year at a rate of 5 per cent. per annum on the share capital of the Company for the time being paid up. When the net receipts of the Company do not suffice to pay interest at 5 per cent. the Company shall be paid by the working agency out of the working expenses the sum of Rs. 5,000 per annum on account of office expenses, and expenses of management and direction of the Company and also such legal expenses as may be incurred by the Company and approved by Government and as are debitable to Revenue. When the net receipts exceed 5 per cent. on the share capital, the office expenses and the expenses of management to the extent specified above shall be a first charge on surplus profits before they are divided between Government and Company, provided that if the surplus profits are insufficient to meet the administrative charges the balance will be paid to the Company by the working agency out of the stipulated percentage of the earnings of the railway received by it.
- (iii) Terms of working.—The line is supplied with plant and machinery, other than fixed machinery, and is managed, worked, and maintained, in respect of the railway, station yards, sidings, rolling-stock, etc., for 45 per cent. of its gross earnings.
- (iv) Distribution of profits.—When the net receipts of the Company in any year exceed the minimum amount sufficient to pay interest at 5 per cent. on the paid up—share capital, such excess shall be applied for or towards payment of office expenses and expenses of management and direction of the Company up to the limit specified in provision (ii) above and the balance, if any, shall be divided equally between Government and the Company. The Government share is payable to the Great Indian Peninsula Railway.
- (v) Rates and Fares.—As under the Great Indian Peninsula Railway.

8. GREAT INDIAN PENINSULA RAILWAY SYSTEM-contd.

(h) Pachora-Jamner railway (2' 6" gauge)-concld.

Main provisions of contracts-concld.

- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores —
 - and Government stores (with the management and maintenance
 (b) Government bullion and coin and the persons in charge thereof— of the railway and the conduct of traffic thereon, including police and telegraphs and telegraphic appliances or telephones shall in all respects, as far as practicable, be carried on in the same manner and subject to the same regulations and control by the Secretary of State as the same are carried on on the Great Indian Peninsula Railway and the Company shall not interfere or be concerned therewith.

All matters and things in connection

- (vii) Power of the Government to determine contract.—The Government may, by giving not less than twelve months' "notice of purchase", determine the contract on the 31st March 1919 or on the 31st March in the last year of any subsequent period of ten years.
 - If the contract is determined by "notice of purchase" the Government shall pay to the Company a sum of money equal to 25 times the amount of the average of the yearly net earnings derived by the Company during the three years immediately preceding the date on which this contract shall be determined subject to the limit of 20 per cent. in excess of, but not less than the total capital expenditure of the Company.

The Government may also, by giving twelve months' "notice of special purchase", determine the contract at any time in the following cases:—

- (a) when the Secretary of State considers it desirable that the gauge of the railway should be altered,
- (b) when it is desired to convert the railway into a line of through communication,
- (c) when the Secretary of State desires to extend the Railway and the Company does not within six months from the date of the formal requisition by the Secretary of State for the capital necessary for the construction of extension, raise such additional capital.
- If the contract be determined by "notice of special purchase" the Government to pay to the Company 25 times the average of the yearly net earnings derived by the Company during the three years preceding such date or 115 per cent. of the total capital expenditure of the Company, whichever may be the greater.
- (viii) Power of the Company to surrender contract .- Nil.
- (ix) Term of contract [if not determined under (vii)].-None specified.

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	1	of net earnings on total	the percentage for working	of surplus profits payable to (—), the Great Indian Peninsula Railway,	Total	Percentage of total income on total capital outlay given in column (3)	Enrn	Propertion of expenses to earnings.
I	2	3	4	5	6	7	8	9	10	11	12
1918-19 1919-2 0 1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27 1927-28 1928-29 1929-30 1930-31 1931-32 1932-33 1933-34 1934-35 1935-36	Miles. 34 · 62 34 · 62 34 · 62 34 · 62 34 · 62 34 · 62 31 · 76 34 · 76 34 · 76 34 · 76 34 · 76 34 · 76 34 · 76 34 · 76 34 · 76 34 · 76 34 · 62 34 · 62 34 · 62 34 · 62	16,65,906 16,88,297 16,88,298 16,97,048	Rs. 61,681 1,63,010 1,42,524 1,51,837 1,51,553 1,57,442 2,02,678 1,60,502 1,41,180 1,15,580 1,02,101 1,06,145 79,602 64,916 87,043 83,500 69,138 71,220 63,309	Rs. 33,925 88,005 78,132 79,820 80,594 86,553 83,26 77,649 63,574 45,925 38,026 39,171 34,820	2·04 5·37 4·71 4·79 4·77 5·13 5·13 3·28 2·46 2·69 2·58 2·13 2·13 2·195	+3,748 +1,062 +842 +851 +519 +889 +446 +525 +323 +301 +401 +236	+11,357 +22,972	Rs 91,492 91,532 91,577 92,190 94,62 99,506 99,558 99,304 99,214 94,942 99,413 97,966	5 5 5 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Rs. 57 91 79 84 84 87 113 89 56 44 46 38 39 35	45.00 45.00* 45.18* 47.43* 46.82* 45.00 45.00 45.00 45.00 45.00 45.00 45.00 45.00 45.00 45.00 45.00 45.00 45.00 45.00

8. GREAT INDIAN PENINSULA RAILWAY SYSTEM-concld.

(i) Pulgaon-Arvi railway (2' 6" gauge)—

Agents .- Messrs. Killick, Nixon & Co., Bombay.

Date of registration of the Company-1914.

Sanction to the construction of this line by the late Great Indian Peninsula Railway Company, for the Central Provinces Railways Company, was conveyed in Railway Board's Notification No. 248, dated the 30th September 1914.

Progress in opening-

		Section	of railwa	ıy.				Date of opening	Miles.	Total.
		2	3	4						
Pulgaon to Arvi	••	••	••	• •	••	••		25-9-17	21.83	21.83

Details of construction-

Permanent-way.—The permanent-way consists of 35-lb. flat-footed rails on trough sleepers.

Ballast.—The line is ballasted with stone.

Fencing.—Only station platforms, B class level crossings and some cuttings alongside the Public Works Department road are fenced.

Curves.—The sharpest curve is of 537 feet radius.

Gradients.—The steepest gradient is 1 in 80.

Contracts-	
	Included in the particulars noted under Ellichpur-Yeotmal railway.
filain provisions of contracts-) ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
Statistics of working . Include	ed with Ellichnur-Yeotmal railway.

9. JODHPUR RAILWAY SYSTEM.

Lines comprised in the system .-- The Jodhpur railway system is made up of-

		Open line,	Under construction or sanctioned for construction. Miles.	Tota 1 Miles
(a) Jodhpur railway (3'3% gauge)		. 766.94	••	766.94
(b) Jodhpur-Hyderabad railway (British section) (3' 3}" gauge)		238-52	••	238.52
(c) Mirpur Khas-Khadro railway (3' 3g" gauge) .		. 49.50	••	49.50
	Total	1,054.96	••	1,054 • 96

(a) Jodhpur railway (3' 38" gauge)—

Progress in opening:-

Sections of	railway.			Date of		Total.	Grand total	. Remarks.
1				opening.	3	4	5	6
Main line-				-		ļ		-
Kuchaman Road to Merta Road Merta Road to Jodhpur .				13-3-93 8-4-91	73·00 64·00			
Merta Road to Jodhpur Jodhpur to Luni Junction				9-3-85	20.00		ļ	
Luni Junction to Balotra . Balotra to Barmer				22-3-87	50.51			1
Barmer to the Marwar Frontier		:	:	15-5-99 22-12-00	60·00 74·44			
Popular and other form		-	-			341-95		
Branches and extensions— Pachpadra branch—					,			
Balotra to Pachpadra				22-3-87	10.00	1		
Marwar Railway Junction extension-						10.00		
markar namedy o unchon excession—					İ			
Luni Junction to Marwar Pali Marwar Pali to Marwar Railway J	•	·		17-6-84	25.00			1
Marwar Pall to Marwar Rallway J	unction	•	•	24-6-82	19.00	44.00		
Phalodi branch—			•			44.00		
Jodhpur to Osinn				21-9-13	34.28	·		1
Osian to Marwar Lohawat . Marwar Lohawat to Phalodi .	•			17-3-14	27.22			
Plarwar Lonawat to Pasiodi .	•			12-5-14	17.69	79 - 19		j
Merta City branch—]		10.19		
Merta Road to Merta City .				18-1-05	8.95			* Owing to realign
Bhagu extension—				ľ		8.95		ment of the lin
Merta Road to Nagaur .				16-10-91	35.00	ļ		ria Ladnun, th
Nagaur to Marwar Frontier		•		9-12-91	24.50			Jaswantgarh-Lad- nun branch was
				-		59.50	•	dismantled result
Marwar Frontier extension— *Degana to Marwar Frontier .				16-9-09	04.00	1	•	ing in a net de crease of the line
Sursagar Branch—	• •	•	'	10.9.09	64.22	64.22		by 1.45 miles.
Jo lhpur to Sursagar stone siding			.	15-3-24	9.39			The realignment was opened on Is
Bilara Branch— †Pipar Road to Bilara .			- 1	0 0 00	05.50	9.39	l	May 1932.
Parbatsar Branch—	• •	•	•	2-8-28	25.72	25.72		†This line was
Makrana to Parbatsar			.	1-8-28	13.21	20 12		2'0 gauge but
Raniwara Branch—						13.21	j	was converted to
Samdari to Mokalsar Mokalsar to Jalor		•	.	1-2-29 15-3-29	16.23	Í	İ	and opened or
Mokalsar to Jalor Jalor to Marwar Bhinmal	• •	•	. 1	1-5-30	20·44 38·75		1	the 3'33" gauge on the date
Marwar Bhinmal to Raniwara		:		1.3.31	19.81			shown.
hulad Branch-			1	-		95.23		
Marwar Junction to Phulad .			,	4-2-36	15.50	į	į	,
mar dunction to indiad .		•	•	4-2-30	15.28	15.58		
Mom								
TOTAL OPEN	MILEAGE	•	• 1		••	•••	766.94	

Details of construction-

Permanent-way.—About 209 miles of the line are laid with 60-lbs. steel rails, 413 miles with 50-lbs., 30 miles with 41-\frac{1}{4} lbs. and 114 miles with 36 lbs. rails. The sleepers are steel trough, deodar, and s\hat{a}l.

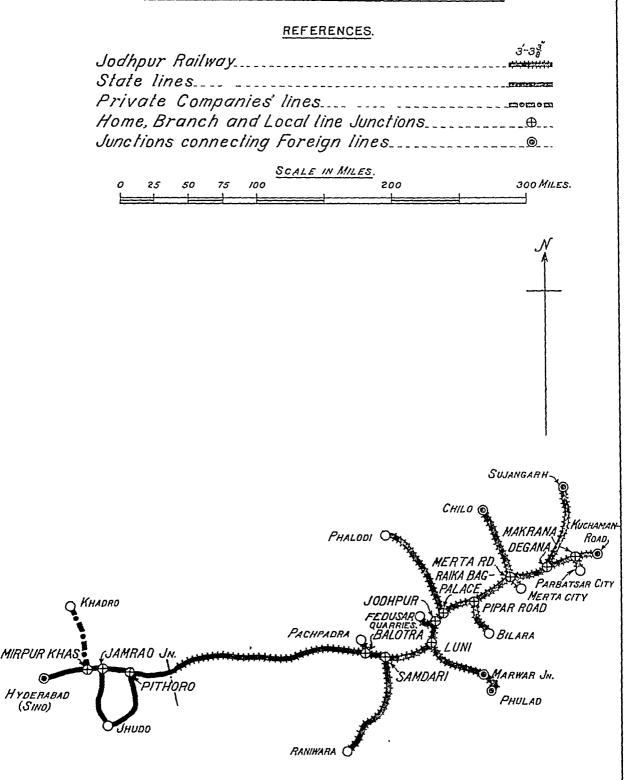
Ballast.—The greater portion of the main line is ballasted with stone and marble and the balance with coarse sand, Stone and Kankar.

Fencing. -With the exception of a few stations the line is unfenced.

Curnes.—The sharpest curve is of 716 feet radius.

Gradients.—The ruling gradient is 1 in 120 except at mile 8 on the Sursagar quarry branch where the steepest gradient is 1 in 50.

JODHPUR RAILWAY SYSTEM.



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9. JODHPUR RAILWAY SYSTEM-contd.

(a) Jodhpur railway (3' 33" gauge) -concld.

Agreement-

On the separation of the joint working of the Jodhpur and Bikaner railways from the 1st November 1924 a new agreement dated the 14th September 1933 has been entered into between the Government of India and His Highness the Maharaja of Jodhpur for construction and working of the line.

Main provisions of agreements.-

(i) Land .- Provided free of cost by the Jodhpur Durbar.

(ii) Government aid.—Nil. The Jodhpur railway is the exclusive property of the Jodhpur Durbar.

(iii) Distribution of profits.—The whole of the net earnings belongs to the Jodhpur Durhar.

(iv) Rates and fares.—Certain maxima and minima have been fixed, between the limits of which the Railway Administration can vary the rates and fares quoted for goods and coaching traffic.

(v) Special obligations as to the conveyance of-

- (a) Mails, troops, police, high Government officials and Government stores-
- rates and fares were approved by executive orders of the Durbar. (b) Government bullion and coin, and the persons in charge thereof

Not specified; but certain

(vi) Power of the Government to determin agreement.

(vii) Power of the Durbar to determine agreement .-None specified. (viii) Term of agreement.—

Statistics of working (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix I to the Report for 1913-14).

		Total capital outlay,			Percentage		
Year	Mileage open at end of each year.	including suspense, to end of each year, is coutlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings	Net earnings	of net carnings on total capital outlay given in column 3.	Earnings per mile per week.	Proportion of expenses to earnings
1	2	3	4	5	6	7	8
	Miles.	Rs.	Rs.	Rs.		Rs.	
1913-14 .	. 586.50	1,84,49,723	35,84,107	17,48,754	9.48	118	51.21
1914-15	. 604 - 19	1,95,50,053	30,69,518	14,66,772	7.50	98	52.21
1915-16 .	608.75	1,99,91,257	44,82,377	26,14,214	13.08	142	41 68
1916-17	. 608.75	2,04,66,528	45,70,000	24,73,885	12.09	144	45.87
1917-18	608.75	2,04,44,558	55,58,464	32,85,831	16.07	176	40.89
1918-19 .	. 608.75	2,14,26,974	58,17,634	31,94,292	14.91	184	45.09
1919-20	. 609 26	2,23,78,903	53,03,580	25,09,098	11.21	167	52.69
1920-21	. 609.26	2,40,53,293	53,34,025	21,79,234	9.06	168	59-14
1921-22	609.26	2,86,49,372	57,89,702	19,04,434	6.65	183	67.11
1922-23	609.26	2,95,20,571	62,87,563	21,97,730	7.44	198	65.05
1923-24 .	609 26	2,96,29,012	67.86,362	21,54,182	7.27	214	68.26
1924-25	609.26	3,05,01,197	81,49,464	35,40,524	11.61	257	56.56
1925-26 .	617.66	3,41,81,637	64,04,157	21,29,664	6-40	199	66.75
1926-27 .	617.66	3,58,00,464	63,20,699	26,98,655	7.54	197	57.30
1927-28 .	617.66	3,87,17,241	68,94,962	19,53,674	5.05	215	71.67
1928-29 .	693.26	4,11,21,628	72,66,209	25,74,561	6.26	202	64.57
1929-30 .	726.94	4,27,60,901	69,24,794	24,57,488	5.75	183	64.51
1930-31 .	. 1 752.81	4,44,04,050	73,12.907	35,98,003	8.10	186	50.80
1931-32 .	. 752.81	4,47,63,923	63 61,723	25.58,592	5.72	162	59.78
1932-33 .	751 - 36	4,48,60,401	62,22,795	28,53,323	6.36	159	54.15
1933-34	. 751.36	4,50,78,791	63,66,759	30,79,526	6.83	163	51.60
1934-35	751.36	4,59,36,832	71,51,352	37,52,945	8.17	183	47.52
1935-36 .	. † 766·94	4,68,33,264	75,68,699	34,72,610	7.41	189	54.12
1936-37	766.94	4,73,76,071	82,44,984	40,09,051	8.46	206	51.37

[†] The length (15.69 miles) of 'Marwar Jn. to Phulad 'shown in the mileage statement No. 8 of Volume II of Railways Board's Administration Report for 1935-36 was taken from the centre of Marwyr Jn. yard, whereas the actual additional lite constructed is only 15-58 miles. This fact accounts for the difference of 0·11 miles between the figures of mileage shown in the Volume II for 1935-36 and in the above table against that year.

(b) Jodhpur-Hyderabad railway (British section) (3' 3\frac{3}{8}" gauge)— Progress in opening-

Sections o frailway.		Date of opening.	Miles.	Total.	REMARKS.
1		2	3	4	5
*Hyderabad to Shadipalli	•	18-8-92	55.49		*The line from Hyderabad to Shadipalli was originally on
Shadipalli to Jodhpur Frontier Mirpurkhas to Jhudo		22-12-00 18-4-09	68·49 50·43		the 5' 6" gauge but was converted to the 3' 3\sqrt{"} gauge and
Jhudo to Pithoro	•	1-6-35	64.11	238 • 52	opened on the 20th October 1901.
TOTAL OPEN MILEAGE					

Details of construction-

Permanent-way.—About 15.5 miles laid with 80 lb. rails, 41 miles laid with 60-lb. rails, 181 miles with 50-lbs., and 1 mile with 36-lb. rails. All flat-footed steel on deodar, sal, steel trough and C. I. Pot sleepers.

Ballast.—The whole line is ballasted with broken stone.

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9. JODHPUR RAILWAY SYSTEM-contd.

(b) Jodhpur-Hyderabad railway (British section) (3' 3%" gauge)—concld.

Details of construction—concid.

Fencing.—The line is fenced from Chhor to Bulghai (56 miles) and from Rahoki to Hyderabad (7 miles). The line is unfenced from Frontier to Chhor (35 miles) and from Bulghai to Rahoki (26 miles). Mirpurkhas Jhudo branch is unfenced.

Curves.—There are no curves with a radius of less than 1,432 feet.

Gradients.—The ruling gradient is 1 in 150.

Agreement-

The Jodhpur-Hyderabad Railway and the Mirpur Khas-Jhudo Railway were worked by the administration of Jodhpur-Bikaner Railway up to 31st October 1924. On the separation of the joint working of the two railways with effect from the 1st November 1924, the Jodhpur-Hyderabad Railway and the Mirpur Khas-Jhudo Railway were taken over by the Jodhpur Railway. On and from the 1st January 1929, the Mirpur Khas-Jhudo Railway has been purchased by the Government of India from the Sind Light Railways, Ltd., and amalgamated with the Jodhpur-Hyderabad Railway (British Section) from the same date. An agreement for working these Railways has been entred into between the Government of India and His Highness the Maharaja of Jodhpur.

Statistics of working (Those for the periods prior to 1902 will be found in Appendix 38 to the Rallway Administration Report for 1907).

Note.—From the year 1936-37 the Net earnings Working exponses have been arrived at after taking into account the appropriation to Depreciation

Reserve Fund instead of actual expenditure on 'Replacements & Renewals' previously accounted for. Total capital outlay, including suspense Percentage of not Gain or Mileage to end of each year, earnings on total loss to Earnings Proportion of expene., outlay on lines open, and Year. open at Gross Not Interest. per mile capital carnings. pertaining earnings (ii) lines partly or wholly under outlay each to each week. carnings. given in year. year. column 3. constituction. 7 1 Б 9 10 Rs. Miles. R9. R٩. Rs. Rs. Rs. 2,18,814 2,62,379 3,45,007 3,69,002 40,45,972 5,04,008 1,59,771 1902 5.41 +59,043 78 56-59 +1,02,200 +1,90,161 +2,10,380 +3,54,160 +2,35,950 +1,84,221 1,60,179 1,54,846 1,58,622 123·98 123·98 5,84,094 6·49 8·72 1203 40,45,338 55.08 1904 39,58,081 39,67,948 6,48,728 46-82 101 123.98 7,23,989 49·63 42·57 1905 112 138 123·98 123·98 5,11,938 3,57,918 12.58 8.00 1,57,778 1,21,968 1906 40,70,635 8,91,456 40.23.073 8.05,017 7,59,479 1907 125 55.54 1908 123.98 42,81,148 3,34,028 •80 1,49,807 118 127 56.02 +1,28,434 +2,37,793 +5,51,964 1909 123·98 123·98 42,93,099 8,19,444 2,69,834 6·28 8·99 1,41,400 1,42,724 67·10 57·72 42,32,763 42,01,757 9,00,091 12,02,852 3,80,517 6,94,93**4** 1810 140 123.98 16.54 1,42,970 1911 187 42.23 1912 123.98 42,19,491 13,53,633 6,84,232 16.22 1,46,742 210 49.45 1st qr. of 1913 123.98 1,99,609 4.70 40,484 42,42,650 3.23.858 +1.59.124201 38.37 1013-14 14·43 8·24 +4,84,779+2,10,579123.98 13,02,806 1,45,927 43,71,962 6,30,708 202 51.59 44,21,306 44,45,252 44,66,439 1.53.847 9,81,834 12,72,371 1914-15 123 - 98 3,64,426 152 62.88 +4,14,178+5,13,3741915-16 13.46 123.98 5,98,124 1,53,946 197 221 52.98 14·78 24·76 21·13 1916-17 123.98 14,26,998 6,60,256 1,46,882 53.79 +9,62,506 +8,02,874 +4,67,666 +3,49,024 +78,638 +58,647 20,08,227 18,98,253 16,35,385 1917-18 123.98 45,17,708 11,18,516 1,56,010 311 44.39 123.98 49:30 61:76 71:00 86:25 1918-19 9,60,633 1,57,759 45,46,805 45,73,426 294 1919-20 123.98 6,25,422 1,57,756 254 17,78,556 17,28,182 18,51,602 10·94 5·10 1920.21123.98 46,17,926 5,05,160 1,55,236 276 1921-22 123 98 46,58,877 48,36,078 2,37,652 2,22,566 1.59.014 268 1922-23 123.98 4.60 1,63,919 87.98 72.99 71.04 287 1923.24 123 . 98 51,54,998 23,60,014 6.37,388 12.36 1,78,624 +4,58,764 366 1924-25 54,16,928 58,03,534 28,19,877 23 29,536 8,25,393 15.24 1,93,920 123.98 +6,31,473442 1925-26 123.98 2.98.906 5.12 2,13,398 87·17 88·85 360 329 +85.5081923-27 123.98 63,67,283 21,20,825 2,36,480 3.71 2,36,564 69,74,132 82,83,575 83,71,629 1927,28 123 . 98 21,49,917 -1,47,585 7,14,919 2,67,108 3,26,562 4,14,693 333 106-86 25,07,034 23,33,919 +3,88,357 +1,86,557 1928-29 174.41 8.63 276 257 248 71·48 76·85 1929.30 5,40,103 3,53,546 22,53,559 19,71,761 22,40,864 83,75,538 84,31,695 5,48,344 4,69,378 6.55 3,71,225 3,70,969 1930-31 174.41 +1,77,11975·67 76·19 174.41 1931.32 5.57 +98,409 +46,302 216 86,06,548 4.87 1932-33 174.41 4,19,338 3,73,036 246 81 . 29 8,34.934 1933-34 174.41 86,40,008 28,22,197 9.66 3,74,234 +4,60,700 310 70.42 1934.35 4,05,057 4,61,751 1,01,59,769 1,11,78,385 33,34,978 12·43 12·19 174 - 41 12,63,336 +8.58,279367 62.12 238.52 +9,01,11113,62,862 35,88,756 62.02 238.52 1936-37 1,15,66,215 37,26,507 15,11,752 300 59.43

(c) Mirpur Khas-Khadro railway (3' 33" gauge)— Progress in opening—

	Se	ction	of rai	lway					Date of opening.	Miles.	Total.	
			1		•	 			2	3	-1	
Mirpur Khas to Khadro	•	•		•	•		•	•	1-1-12	49.50	49.60	

Details of construction-

Permanent-way.—The line is laid with 60-lb. iron rails for 3.99 miles, 50-lbs. rails for 8 miles and 36-lbs. rails for 37 miles. The sleepers used are deodar, and sâl.

Ballast.—About 22 miles are ballasted with broken stone.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 955 feet radius.

Gradients.—The ruling gradient is 1 in 200.

Agraement-

Contract, dated 9th June 1913, between the Secretary of State and the Sind Light Railways, Ltd., as to the provision of funds for the construction of the Mirpur Khas Khadro Railway.

Contract, dated 9th June 1913, between the Secretary of State and the Sind Light Railways, Ltd., for the construction and working of the Mirpur Khas Khadro Railway.

9. JODHPUR RAII.WAY SYSTEM-concld.

- (c) Mirpur Khas-Khadro railway (3' 33" gauge)-concld.
 - The Mirpur Khas-Khadro Railway was constructed and worked up to the 31st October 1924 by the late Jodhpur-Bikaner Railway Administration under agreement with Government This agreement terminated and the line was taken over by the Jodhpur Railway with effect from the 1st November 1924 for working under the terms of an agreement which is under consideration.

Main provisions of agreement -

- (i) Land.—Provided by the Government free of cost to the Company.
- (ii) Government aid.—The railway is the property of the Sind Light Railways, Limited. It was worked under agreement with the Government, in conjunction with and as part of the British section of the Jodhpur Hyderabad railway.
- (iii) Terms of working.— Under consideration.
- (v) Rates and fares .--

(vi) Special obligations as to the conveyance of .-

(a) Mails, troops, police, high Government Officials and Government stores—

(b) Government bullion and coin and the persons in charge thereofas noted under Jodhpur Hyderabad Railway (British Section) 3' 3\frac{3}{8}" gauge.

(vii) Power of the Government to determine contract.—Government of India may determine the contract by 'Notice of purchase' either on the 31st day of December in the twenty-first year after the opening of the line for traffic, or on the 31st December in the last year of any subsequent period of 10 years, paying to the Company 25 times the amount of the average yearly net earnings of the railway during the 3 years immediately preceding the purchase, provided that such sum shall not exceed by more than 20 per cent.. nor be less than, the total capital expenditure.

Government may also determine the contract and purchase the railway in the following events:--

- (a) if it is considered desirable that the gauge of the railway should be altered;
- (b) if it is considered desirable to convert the railway into a line of through communication; and
- (c) if it is considered desirable to extend the line (without altering the gauge or making the railway part of a through route) and the Company is unable or unwilling to supply the necessary capital for the purpose;

on payment to the Company 25 times the average net earnings during the 3 years preceding the purchase or 115 per cent. of the capital expenditure whichever shall be the greater, but if the purchase occurs within less than 3 years from the opening of the line the price shall be 115 per cent. of the capital expenditure.

Statistics of working-

	Year.		Mileage open at end of each year.	I otal capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines nartly or wholly under construction.	Gross earnings.	Net earnings. 5	Percentage of net earnings on total capital outley given in column 3.	Earnings per mile per week.	Proportion of expenses to earnings.
	1		ت	3	4		0	1	1 8
1913-14		•	Miles 49·50 49·50	Rs. 8.22,222	Rs. 83 334 69,806	Rs. 50,000 41,884	6·08 5·09	Rs. 32 27	40·00 40·00
1914-15 1915-16	•	•	49.50	8,22,603 8,23,096	70,237	42.142	5.12	27	40.00
1915-16		•	49.50	8,23,096 8,22,096	85,302	51,182	6.22	33	40.00
1917-18		•	49.50	8,22,006 8,22,096	94.547	56,728	6.89	37	40.00
1918-19	•	•	49.50	8,23,897	97,727	58,636	7.12	38	40.00
1919-20	•	• 1	49.50	8,24,289	1,27,060	76,236	9.25	49	40.00
1920-21	•	•	49.30	8,25,621	1,21,168	72,701	8.81	47	40.00
1921-22	•	•	49.50	8,27,666	1,04,073	22,443	7.54	40	40.00
1922-23	•	•	49.50	8,31,125	1,33,241	79,915	9.62	52	40.00
1923-24	•		49:00	8,31,783	1.78.375	1,07,025	12.87	69	40 00
1924-25	•	•	49.50	8,35,396	1.64.042	98,425	11.78	64	40.00
1925-26	•		49.50	8,39,869	1,82,223	1,09,335	13.02	71	40.00
1926-27	:	- 1	49.50	8,53,066	1,47,658	88,595	10.39	57	40.00
1927-28	:		49.50	8,53,109	1,24,275	74,564	8.74	48	40.00
1928-29			49.50	8,56,487	1,50,186	90,112	10.52	58	40.00
1929-30	·		49.50	8,56,487	1,09,412	65,647	7.66	43	40.00
1930-31	•		49.50	8.57.165	1,17,224	70,335	8.21	45	40.00
1931-32			49.50	8,58,657	93,517	56,110	6.53	36	40.00
1932-33			49.50	8,61,493	1,06,979	64,187	7.45	41	40.00
1933-34			49.50	9,07,534	1,86,998	1,05,608	11,64	72	*43.53
1934-35			49.50	9,15,769	2,24,409	1,34,646	14.70	87	40.00
1935-36			49.50	9,47,993	2,18,845	1,31,307	13.85	85	40.00
1936-37			49.50	9,58,605	2,15,848	1,29,509	13.21	84	40.00

^{*}On account of direct debit of Rs. 6,591 in working expenses, the proportion of expenses to earnings has increased to 43.53 instead of 40 per cent.

Chairman and Managing Director.—Brigadier-General Sir Charles Lane Magniac, C.M.G., C.B.E., Late R. E.

Secretary .- G. W. V. DE RHE' PHILIPE.

Offices.-25, Buckingham Palace Road, Westminster, S. W. 1.

Date of registration of the former guaranteed Company .- 1853.

The former Madras Guaranteed Railway Company's contract having expired on the 31st December 1907 the lines owned by that Company were purchased by the Secretary of State for India, and on the 1st January 1908 the then existing Madras railway (with the exception of the Jalarpet-Mangalore section), together with the 3' 3\frac{3}{2}''' gauge sections of the South Indian railway from Katpadi to Gudur and Pakala to Dharmavaram, was made over to the Southern Mahratta Railway Company for working, the enlarged Company being styled the Madras and Southern Mahratta Railway Company.

In addition to the lines now comprised in the system, the Company, up to the 30th September 1919, worked the lines, Birur to Shimoga, Mysore to Nanjangud and Mysore to Bangalore all of which were made over to the Mysore Durbar on the 1st October 1919.

Lines comprised in the system.—The Madras and Southern Mahratta railway system is made up of-

										Open lines. Miles.
	(a) Madras and Southern Mahratta railway (5' 6' gauge)	•								1,119 - 10
	(b) Kolar Gold-fields railway (5' 0" gauge) (c) Tenali-Repallo railway (5' 0" gauge)			•		•				9.88
	(c) Tenali-Repallo railway (5' 6" gaugo)			•						21.41
	(d) Madras and Southern Mahratta railway (3' 3}" gauge) .									1,660.33
	(e) Alnavar-Dandeli (Provincial railway) (3' 3\frac{3}{2}" gauge)		•	•						19.12
	(f) Bangalore-Harihar railway (3' 3] gauge)							•		210.49
	(g) Bezwada-Masulipatam railway (3' 37' gauge)			•						51.80
	(h) Hindupur (Yesvantpur-Mysore Frontier) railway (3' 3] gau	go)					•	•		51-19
	(i) Kolhapur State railway (3' 33" gauge)						•			29.27
	(j) Sangli State railway (3' 32" gauge)									4.90
	(k) West of India Portuguese railway (3' 3% gauge)		•	•	•	•	•	•	•	51 • 04
						То	tal		•	3,228-53
unning	r pcwers—								-	
	Foreign lines over home line—									
	Nizam's Guaranteed State railway, outer signal at Bezwada to Be South Indian railway, over whole or any part of the Madras-Bar					•		nesen d good		0·89 219·00
	Bangalore-Chik Ballapur Light railway, Yesvantpur to Yelahank rail.	a, w	ith t	he he	lp of a	3rd		ains.	" }	6.82
						To	tal	• 1		226.74
	Home line over forcign lines-									
	Birur to Shimoga, Birur-Shimoga railway (3' 3¶° gauge) Gopalapannam to Vizagapatam, Bengal-Nagpur railway (5' 6° ga	uge)	•		;	:	:	:	:	37·92 6·76
						To	tal		-	41-68
								•	٠_	41.00

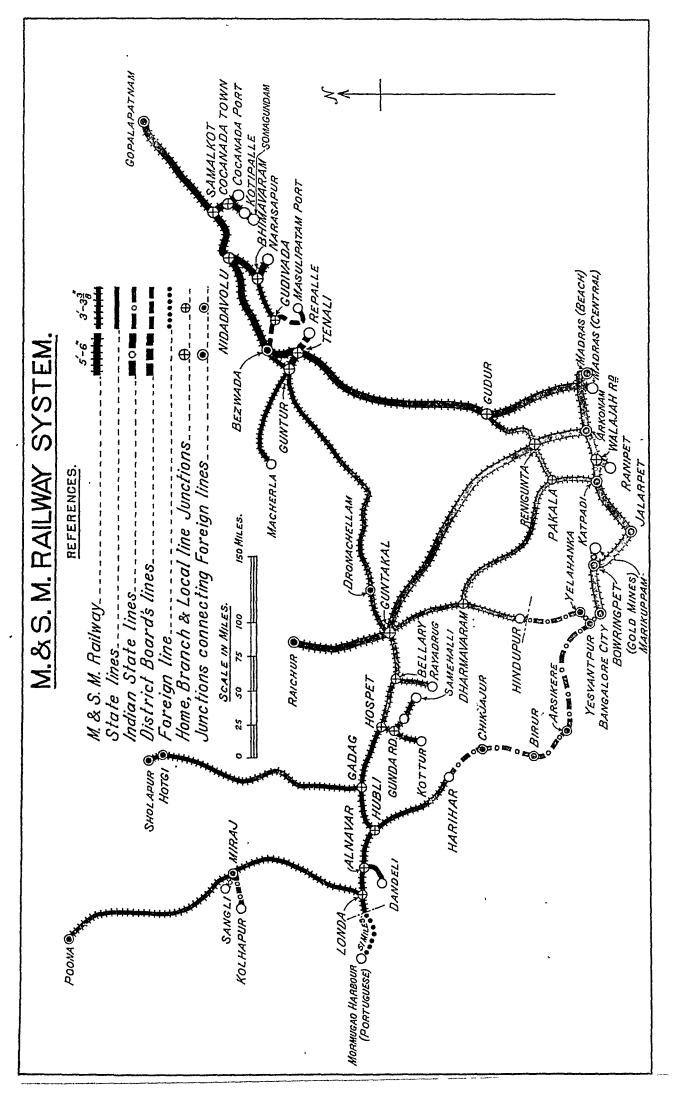
(a) Madras and Southern Mahratta railway (5' 6" gauge)-

The Madras and Southern Mahratta 5' 6" gauge railway is defined to be the former Madras railway (with the exception of the Jalarpet-Mangalore section), and the southern section of the former East Coast railway (called the North-East line of the former Madras railway).

Progress in opening --

Ru

Progress in opening -										
Sections of railway.						Date of opening.	Miles.	Total.	Grand total.	REMARKS.
1						2	3	4	5	6
SOUTH-WEST LINE— Main line— Madras to Veyasarpaudy Veyasarpaudy to Walajah Road (Arcot) Walajah Road (Arcot) to Katpadi Katpadi to Gudiyattam Gudiyattam to Ambur Ambur to Vaniyambadi Vaniyambadi to Jalarpet Branches— Rayapuram branch— Yeyasarpaudy to Rayapuram	: : : : : : : : : : : : : : : : : : : :					7-4-73 1-7-56 7-5-57 10-5-58 16-1-60 1-2-60 23-5-60	2·16 63·22 14·96 15·36 17·01 9·98 10·73	131-45	5	
Rayapuram to Beach . Wa'ermenpet to Basin bridge Korukkupettai to Veyasarpaudy .	:	•	•	:	:	22-1-00 15-3-07 16-2-31	1·03 1·01 1·12			
Ranipel branch— Walajah Road (Arcot) to Ranipet				•		17-4-99	4.17	5·32		
Bangalore branch— Jalarpet Junction to Bangalore Cantonment Bangalore Cantonment to Bangalore City	•	ried o	ver	:		1-8-64 1-7-82	84·37 3·05	87.42	231•36	



10. MADRAS AND SOUTHERN MAHRATTA RAILWAY SYSTEM—contd. (a) Madras and Southern Mahratta railway (5' 6" gauge)—contd

	Sections of ra	ilwan						contd.	
		····ay.			Date				
Name of	1				of				
North-West Line -					opening.	Miles.	1		_
Main line_		R.		-	1 2 g.	1	Total.	Grand	
Arkona		Dit	ught forw	ard	-	1 3	1 :	total	REM.
Nagari to Puttu Puttur to Parti	gari						4	_	1 -
Pillan	ir •				İ			5	1 6
Rout to MCDIO	iinto .	•	•		1	1	- 7	000	_ `
		•		• _	1 40 1	- 1	- 1	231.36	
		•			4.3.61	17-27	- 1	- 1	
		•	•	• 1	8.12.61	0.50	- 1	- 1	
Tod-	odnot i		•	. 1	15.9.62	9.59	- 1	- 1	
Tadpatri to Ta Tadpatri to Gooty Gooty to the Tung Tungabhadra to R	upatri .	'	•	. 1	4-10.64 l	14.46	- 1	- 1	
Two to the Tun		•	•	. 1	1-9-65	38.02		- 1	
Tungabhadra to R	abhadra nvor		•	. 1	1-8-66	39.59	- 1	i	
Norman In	aichur			1	1-9-60	34.31	- 1	- 1	
			•	- 1	1.8 co /	32.07	- 1	- 1	
Basin bridge to Ko Washermenpet to E		•		· []:	Z-12.70 1	29.79	1	- 1	
Washerman To No	rukkunotta.		•	. / 1	15 3-71	75.33	- 1	ı	
Washermenpet to Ennore to Gudur . Gudur to November 1	nnom					7.92	1	- 1	
		•		1	/			- 1	
Nolla	• •	•		. 1 1:	5-3-07	308	3-28	- 1	
Kietn- a Mistna Co	nnl	•	•	99	2-2-96	1.06	30.	8.28	
		•		. 59	-2-96	8.77	1 300	2.58	
Korna to Koyvar	· aqa	٠.	٠.	. / +1"	3.99 7	5.25	- 1	- 1	
Kovvur to Rajahmun Rajahmundry to		٠.	٠.	20.5	11-88	3.75	- 1	- 1	
Branches_ Branches	ary	•	٠.	20.1	2.98 25	00	- 1	I	
So	Junction point	•	•	15.	7-97 155	100	- 1	- 1	
Rajahmundry to the Branches— Samalkot Junction to	"~int near	Waltair	•	1 20.9	2.00	50	1	* m.	
Samalkot Junction to	Cocanada nost i		• .	1 ,6.8	3-00 88	24	- 1	l of he	e date
Guntur to Tenali	Port Drai	ach .		15.7		69	1		
Nia.	•	•		,			1	, ug c	of the
Aldadavolu- No-	٠.			15.7.	93	479.73	. 1	Origi	nal
Nidadavolu- Narasapur	•	٠.		1	; 9-	75	1		31.
Cocanada—Kotipalle	•		-	[8-3-1	10	1 .	1	gauge	3
-Loupalle		• •	_	1	1 13.6	8 8 10	1	line	
	• • •		•	3.2.2	9	15.63	I	which	
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	T _{OTAL} OPEN	3 ran -	٠.	1-11-29		1 =0.52		1 Vertad	4
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Basin Bridge to Korukku Arkonam to Nagari (e. 1)	*·uge		•	l –	1	27.38	579-46	I cd on the	he
Washerman Nagari (at A.	hat.		- 1		1	-		, ,	
Dasin Bridge to Korukku Arkonam to Nagari (at Ar Washermenpet to Veyasari Madras to Veyasarpandy Ji Villivakkam to Avadi Avadi to Tirne	nonam station -	.: .	• • 1	15-3-07	7	$\int_{\mathbb{R}^{n}} \cdot \cdot \cdot \cdot \int_{\mathbb{R}^{n}} \cdot \cdot \cdot \int_{\mathbb{R}^{n}} \cdot \cdot \cdot \int_{\mathbb{R}^{n}} \cdot \cdot \cdot \cdot \int_{\mathbb{R}^{n}} \cdot \cdot \cdot \int_{\mathbb{R}^{n}} \cdot \cdot \cdot \int_{\mathbb{R}^{n}} \cdot \cdot \cdot \cdot \int_{\mathbb{R}^{n}} \cdot \cdot \int_{\mathbb{R}^{n}} \cdot \cdot \int_{\mathbb{R}^{n}} \cdot \cdot \int_{\mathbb{R}^{n}} \cdot \cdot \int_{\mathbb{R}^{n}} \cdot \cdot \int_{\mathbb{R}^{n}} \cdot \int_{\mathbb{R}^{n}} \cdot \cdot \int_{\mathbb{R}^{n}} \cdot \int_{$	1,119-10	gauge o	27
Villivakkam to Avadi Avadi to Tiruwalla	Paudy - Wolf Yar	α)	• . /	1-7-31	1.01	7	0-10		
Avad: 4 Wall	unction	•	• • • • •	-11.0-	1.06	1 :	_	I MOtom	
Tirmen Tavallir		:	·	-11-27	1.36	I		ממסל יזים	
Tiruvallur to Arkonam Rayapuram to Tiruvallur	•	•		14.9.01	1.26	1	- 1	†Plus 0.30	
Rayapuram to Tiruvottiyur			• 11	7-4-73	2.16	١ .	- 1	miles due)
- Auvottiyur				1-5-77	6.00	1	1	to To	,
74 Drawn	•	•	: I :	40.7.77	6.63 12.89		- 1	bosed bro-	
UADRUPLE LINE	Tones -	٠.	• 1 2	48.8.77	12.89	- 1	- 1	foother	
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	-		- 1	- 1	••	40	, ,		
nunent			18	-11-20		48-17	1 2	Qoar riman	
manent-way.— Duth-West line.—The line (1) 90 lbs. B. H. roil-			18	-11-29	3.71	3·71	;	near river at Koti.	

Details of construction-

South-West line.—The line is laid with:

- (1) 90 lbs. B. H. rails on C. I. pots from mile 0/7 to 3/15 to 5/16-17; 6/11-12 to 12/18; 14 to 25; 27
- (2) 90 lbs. B.H. rails on wooden sleepers from mile 0/7 to 3/15; 5/16-17 to 6/11-12; 71 to 713;
- (3) 90 lbs. B. H. rails on C. I. pots and wooden sleepers from mile 12/18 to mile 14; 25 to 27; 39
- (4) 80 lbs. B. H. rails on C. I. pots from mile 0 (Madras) to mile 0/7; 133% to 205; 206 to 210;
- (5) 80 lbs. B. H. rails on C. I. pots and wooden sleepers from mile 205 to mile 206; 210 to 211. North-West line.—The line is laid with:
- (1) 90 lbs. B. H. rails on wooden sleepers from mile 41/22 (Arkonam) to mile 43/1-2; 175/2 to 175/9 (1) a. 90 lbs. B.H. Rails on C. I. Pots from mile 43/1-2 to 46/2-3.
- (2) 80 lbs. B. H. rails on C. I. pots from mile 46/2—3 to mile 135; 137 to 175/2; 175/9 to 2117; 212,3 (3) 80 lbs. B. H. rails on wooden sleepers from mile 3331 to mile 334.

- (4) 80 lbs. B. H. rails on longitudinal timbers from mile 136 to mile 137.
- (5) 76 lbs. B. H. rails on C. I. pots from mile 275 to mile 275 ; 2821 to 3101; 3125 to 3321. (6) 75 lbs. B. H. rails on C. I. pots from mile 276½ to mile 278½; 310½ to 312§.
- (7) 75 lbs. D. H. rails on C. I. pots from mile 332½ to 333½ and 334 to mile 350½ (Raichur). H54CRAccts.

(a) Madras and Southern Mahratta railway (5' 6" gauge)—contd.

Details of construction-concld.

North-East line.—The line is laid with:

- (1) 90 lbs. B. H. rails on wooden sleepers from Basin Bridge to Korukkupettai (a distance of 1.06
- (2) 90 lbs. F. F. rails on wooden sleepers from Korukkupettai to mile 84/61; 975 to 1083; 1084 to $109\frac{1}{4}$; $128\frac{7}{8}$ to $129\frac{3}{4}$; 409/2 to $46\frac{3}{16}$.
- (3) 90 lbs. F. F. on steel trough sleepers from mile $108\frac{5}{8}$ to mile $108\frac{5}{8}$; $109\frac{1}{4}$ to $128\frac{7}{8}$; $129\frac{3}{4}$ to 132/183.
- (4) 90 R. F. F. Rails on wooden sleepers from mile 84/61 to mile 883; 89 to 97-5/8; 194/20 to 195/12-13; 220/4 to 259/3; 264 to 264/17; 266/22 to 371-5/8; 390, to 391 and 463/16 to 470/5.
- (5) 90 R. F. F. rails on steel trough sleepers from mile $88\frac{3}{4}$ to mile 89; $132/18\frac{1}{2}$ to 194/20; 195/12-13to 220/4; 259/3 to 264; $265/9\frac{1}{2}$ to 266/22; $371\frac{5}{8}$ to 390; 391 to 409/2; and 470/5 to $478/18\frac{3}{4}$.
- (6) From mile 264/17 to $265/9\frac{1}{2}$; the line is laid with 75 lbs. F. F. rails on longitudinal timber (over kistna Bridge).

Branches-

The Walajah Road-Ranipet branch is laid with 75-lb. double-headed and 75-lb. B. H. steel rails on cast iron pote.

The Samalkot-Cocanada; Cocanada Kotipalli, Guntur-Tenali and Nidadavolu-Narasapur Branches are laid with 75-lb. flat-footed steel rails on wooden sleepers.

Ballast — The line is ballasted with stone and sand, chiefly the latter.

Fencing.—The North-West and South-West lines are fenced throughout and the North-East line only in the vicinity of towns, stations and level crossings.

Curves —The sharpest curve is of 800 feet radius.

Gradients .- The ruling gradient between Madras and Jalarpet is 1 in 177; between Jalarpet and Bangalore, 1 in 80 (except at Kuppam Ghat, where it is 1 in 68), and between Bangalore cantonment and Bangalore city. where it is 1 in 76; between Walajah Road and Ranipet 1 in 150, between Arkonam and Rennigunte 1 in 80; between Renigunta and Nandalur 1 in 100 (except at Ballapalli Ghat where it is 1 in 60); between Nandalur and Cudapah 1 in 90, Cudapah and Gooty 1 in 129, Gooty and Raichur 1 in 104; between Madras and Rajahmundry 1 in 200 except between Basin Bridge and Korukkupettai where it is 1 in 120 and between Kovvur and Godavari where it is 1 in 150; between Rajahmundry and Gopalapatnam 1 in 150.

Contracts-

Dated the 1st June 1882 (called the original contract), between the Secretary of State and the former Southern Mahratta Railway Company, as to the construction and working of a system of railways in the South Mahratta country to be called the Southern Mahratta railway.

Dated the 28th October 1885 (supplemental to that of 1882), between the Secretary of State and the former Southern Mahratta Railway Company, as to the construction and working of the West Deccan

railway.

Dated the 31st August 1887 (supplemental to those of 1882 and 1885), between the Secretary of State and the former Southern Mahratta Railway Company, as to the construction and working of a line from Ranibennur to Harihar and a line from Bellary to Guntakal.

Dated the 31st August 1887 (supplemental to those of 1882, 1885 and 1887), between the Secretary of State and the former Southern Mahratta Railway Company, as to the construction, maintenance

and working of the Mysore State railway.

Dated the 27th February 1889 (supplemental to those of 1882, 1885 and 1887), between the Secretary of State and the former Southern Mahratta Railway Company, as to the completion and working of the Bellary-Kistna railway.

Dated the 21st August 1898 (supplemental to those of 1882, 1885, 1887 and 1889), hetween the Secretary of State and the former Southern Mahratta Railway Company, as to the working of the British section

of the Guntakal-Yesvantpur railway.

Dated the 8th April 1903 (supplemental to those of 1882, 1885, the secondly mentioned contract of 1887. and that of 1889), between the Secretary of State and the former Southern Mahrata Railway Company, as to the adoption of 1s. 4d. as the "prescribed" rate of exchange. [Since cancelled under the contract of 19th November 1923.]

Dated the 26th June 1908 (called the principal contract), between the Secretary of State and the Madras and Southern Mahratta Railway Company, as to the continuance of the existing contracts subject to the variations and modifications thereof as therein set forth.

Dated the 16th March 1911, between the Secretary of State and the Madras and Southern Mahratta Railway Company, supplemental to, and in amendment of certain particulars in, that of 1908.

Despatch from the Secretary of State, No. 66-Railway, dated the 9th August 1912, in regard to the

issue of further capital by the Company.

- Dated the 11th February 1914 (supplemental to that of 1908), between the Secretary of State and the Madras and Southern Mahratta Railway Company, in regard to the issue of debentures and debenture stock.
- Dated the 20th May 1914 (supplemental to the contracts of 1882, 1885, 1887, 1889, 1898, 1903, 1908 and 1911), between the Secretary of State and the Madras and Southern Mahratta Railway Company, as to the adoption of the Government financial year for the preparation of accounts.

(a) Madras and Southern Mahratta railway (5' 6" gauge)—contd.

Contracts-concld.

Dated the 12th August 1914 (supplemental to the contracts of 1882, 1885, 1887, 1889, 1898, 1903, 1908 1911 and 20th May 1914), between the Secretary of State and the Madras and Southern Mahratta Railway Company, as to the construction, maintenance and working of the Guntur-Tenali section of the Guntur-Repalle railway as part of the undertaking of the Company.

Dated the 19th November 1923 (supplemental to the contracts quoted above) between the Secretary of State and the Madras and Southern Mahratta Railway Company, as to compiling accounts and statistics annually instead of half-yearly from 1st April 1920 and as to the rate of exchange for

the conversion of sterling transactions from 1st October 1921.

Dated the 24th October 1924 (supplemental to the contracts of 1887, 1903, 1908 and 20th May 1914) between the Sceretary of State and the Madras and Southern Mahratta Railway Company, as to transfer of Mysore-Nanjangud, Birur-Shimoga and Mysore-Bangalore sections of the Mysore railway to the Mysore Durbar with effect from the 1st October 1919.

Dated the 18th November 1925 (supplemental to the principal contract of 1908 and those of the 16th March 1911 and 12th August 1914), between the Secretary of State and the Madras and Southern Mahratta Railway Company, as to temporary exclusion from the Government capital of certain

advances by the Secretary of State.

Dated the 6th May 1929 (Supplemental to the contracts of 1882, 1885, 1887, 1889, 1898, 1908, 1911, 1914, 1923, 1924 and 1925) between the Secretary of State and the M. and S. M. Railway Company as to the adoption of 1s. 6d. as the prescribed rate of exchange for the conversion of sterling money from 1st October 1928.

Dated the 24th day of February 1930 (Supplemental to the contracts of 1882, 1885, 1887, 1889, 1898, 1908, 1911, 1914, 1923, 1921, 1925 and the deed of 1929) between the Secretary of State and the M. and S. M. Railway Company as to the construction, maintenance and working of further six lines and as to advances by the Secretary of State.

Deed dated 15th day of January 1937 between the Secretary of State in Council of India and the Madras and Southern Mahratta Railway Co. Ltd., as to the fixing of amount of rent payable by the

Postal Department of the Government of India.

Deed dated 24th day of March 1937 between the Secretary of State in Council of India and the Madras and Southern Mahratta Railway Co., Ltd., for the continued working of the Company and State

Main provisions of contracts-

(i) Land.—Provided by the Government at the cost of capital.

(ii) Government aid.—(a) Interest in sterling is guaranteed at 3½ per cent. per annum on the nominal amount of capital stock, for the time being, of the Company, and is payable half-yearly by the Secretary of State, the Government being entitled to retain out of the Company's share of surplus profits for the year the rupec-equivalent of this interest. If the Company's share for the year be less than the guaranteed interest, the deficiency is not to be made good out of the Company's share of a subsequent year,

(b) Moneys for capital expenditure are provided at the Secretary of State's option, either by advances made by him, or by the issue of debentures or debenture stock or further capital stock of the Company; such issues can only be made with the Secretary of State's approval.

(c) Debentures falling due are discharged by advances made by the Secretary of State.

[Note.—The advances made by the Secretary of State under (b) and (c) above are, until repaid, treated as further capital contributed by him. All moneys raised by the Company on debentures or debenture stock or capital stock are applied, in the first place, to the repayment of these advances.]

(d) Interest due on debentures or debenture stock is paid in sterling by the Secretary of State.

[Norr.—This late to converted into Indian currency at the uniform rate of 1s. 6s. per rupes from 1st October 1928 is repaid to Secretary of State out o the net coronax of each half-year.]

(iii) Distribution of profits.—After deducting from the gross earnings of the Company's and State lines for the half-year, arrived at by deducting the payment of rebate to the South Indian Railway the working expenses (which include the contributions made under the rules to the Provident Fund and the haulage payable to the South Indian Railway), the net earnings are

(a) in payment of relate to the Bezwada-Masulipatam Railway if any [see parenthetical note

under (c) below];

(b) in repayment to the Secretary of State of the interest paid on debentures [see (ii) (d) above]. But the undertaking is to be credited half-yearly with a sum equal to the guaranteed interest paid on the average amount, if any, held by the Secretary of State during the half-year, of the unexpended balances of issues of capital made for the purposes of the undertaking; and

(c) the surplus is divided between the Secretary of State and the Company in proportion to the respective shares in which the capital, for the time being (excluding debenture capital), has been contributed by them. The Secretary of State's capital is taken at a sum of £111 millions, to which is added the amount up to date of his advances; and the Company's capital at £5 millions, the amount for the time being of their share capital.

Note 1.—The Secretary of State has agreed as a temporary measure to the exclusion from the Tovernment Profit Sharing Capital of all further advances made by him up to 30th September 1930 on the understanding:—

(i) that interest at the rate of 6½ per cent. per annum on the amount of advances up to 30th September 1928, and at the rate of 6 per cent. per annum on the advances from 1st October 1928 to 30th September 1930, shall be charged against the net earnings of the under taking before the division of the surplus and

(a) Madras and Southern Mahratta railway (5' 6" gauge)—concld.

Main provisions of contracts-concld.

(ii) that the Secretary of State shall rotain his right to call upon the Company at any time to repay the whole or any part of the advance referred to.

The principle that the Secretary of State's advances are to rank as profit sharing capital has not been surrendered but merely suspended as regards advances made up to 30th September 1930.

Advances made from the 1st October 1930 will rank as profit sharing capital in accordance with the provisions of the contract of 1908.

Note 2.—The capital expended on the construction of the Nidadayolu-Narsapur, Gudivada-Bhimavaram, Cocanada-Kotipalli and Guntur-Gurana-Macherla rankáys should be charged at interest not exceeding 51 per cent. and not as profit sharing capital of the Secretary of State.

Nore 3.—25 per cent. of the gross earnings derived by the Madras-Bangaloro section from traffic carried over that section in South Indian railway trains is payable as haulage to the South Indian railway. In addition, the South Indian railway receives a rebate of 25 per cent. of the gross earnings derived by the Madras-Bangalore section from the traffic interchanged between that section and the Jalarpet, Mangalore section, via Jalarpet.

The terms of the rebate payable to the Bezwada-Masulipatam railway are given under Bezwada-Masulipatam railway (3'32" gauge).

- (iv) Rates and fares. Maxima and minima for each class and description of passengers and goods are fixed by the Government, who also prescribe the several classes and descriptions. If the Government require the Company to reduce the rates for salt below those in force on the 28th June 1908, the Company are to be compensated for any loss ensuing.
 - (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.-
 - (b) Government bullion and coin, and the persons in charge thereof.-
- To be conveyed on the same general conditions and at the rates in force on State railways of similar gauge.
- (vi) Power of the Government to determine contract.—The railway and all its appurtenances are absolutely the property of the Government, which may determine the contract on the 31st December 1945, or on the 31st December in any succeeding fifth year reckoning from the date, by giving to the Company in London not less than twelve months' previous notice. Upon the termination of the contract the Company are to give the Government the possession of the railway; and the Government are to pay the Company a sum equal to the nominal amount of its share capital, viz., £5,000,000, and of any additional paid-up capital stock that may have been issued for the purpose of the Company's and State lines.
- (vii) Power of the Company to surrender contract.—Nil.
- (viii) Term of contract.—The contract is determinable only as noted under (vi) above. Statistics of working-
- -(i) The amount of sterling liabilities involved in the purchase of railways, included in the figures elemn in cel. 3 lelem experies 1933-34 and 1934-35, has been converted at the rates of exchange ruling at the time when the liabilities cene into leing, as against the statutory rate of exchange, i.e., ls. 6d. previously adopted. From the year 1856-36 onwards, the same amount has been reconverted at the latter rate.
- Net earnings (ii) From the year 1936-37, the Net earnings have been arrived at after taking into account the appropriation to Depreciation Reserve Fund instead of actual expenditure on 'Replacement and Renewals' previously accounted for.

Meselvo Fund instead	or nevnar ex	penditure on Acpin	cement and Ker	cwais previo	usiy accounted	1 10r.	
Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year. i.e., outlay on (i) lines open, and (ii) lines partly or wholly under	Gross earnings.	Net earnings.	Percentage of net carrings on total capital outlay, or capital at charge, given in column	Earnings per mile Per week.	Proportion of experses to earnings.
1	2	construction. 3	4	5	3. 6	7	8
1908	Miles, 1,031·73 1,031·73 1,031·73 1,031·73 1,031·73 1,031·73 1,031·73 1,047·61 1,047·61 1,047·61 1,040·65 1,040·65 1,040·65 1,040·65 1,040·65 1,040·65 1,040·65	Rs. 10,69,79,297 17,06,51,720 17,37,06,686 17,73,67,663 17,80,88,139 17,97,20,709 18,26,82,343 18,59,51,863 18,63,26,872 18,80,50,395 18,95,62,451 19,08,80,130 19,88,36,327 23,68,30,000* 24,42,11,918* 24,88,30,929* 31,97,15,157* 32,33,83,416* 33,16,11,094* 34,85,35,431* 26,46,10,984*	Rs. 1,64,22,683 1,79,33,335 1,88,12,095 1,96,36,910 2,16,88,462 59,13,814 2,26,70,840 2,33,73,105 2,58,28,354 2,98,17,094 3,37,04,402 3,49,03,149 3,67,17,729 3,70,62,087 3,84,11,602 4,30,02,428 4,31,24,272 4,61,64,95 4,84,96,444 4,76,90,730 5,10,44,303	Rs. 44,96,042 72,97,315 80,93,571 89,15,549 1,03,95,264 32,08,211 1,04,31,713 1,10,00,466 1,26,37,710 1,50,86,189 1,83,63,449 1,88,14,745 1,65,91,634 1,32,61,460 1,16,12,682 1,00,03,178 2,11,10,481 2,14,77,449 2,14,09,476 2,16,88,469	2·69 4·28 4·66 5·03 5·84 1·82 5·71 5·72 6·78 8·69 9·86 8·35 5·60 4·76 6·43 5·99 6·48 6·48 6·14 8·18	Rs. 306 334 351 366 404 441 4423 436 481 547 616 651 686 705 790 792 851 888 873 930	72·62 59·31 56·98 54·60 52·07 44·74 63·93 52·91 51·07 49·40 44·80 64·22 69·77 62·79 55·58 54·27 55·70 55·10 57·61
1928-29	1 1/2 72 77	27,44,20,230* 28,61,24,914*	5,34,62,622 5,25,59,008	2,62,65,343 2,52,05,843	9·57 8·81	935 896	50.87 52.04
1931-32	1,118·80 1,118·80 1,118·80 1,119·10	29,15,52,944 33,57,82,102 33,58,96,373 35,38,73,875 35,45,37,580	4,66,98,908 4,42,78,177 4,14,72,228 4,31,45,569 4,26,74,283	2,05,89,325 2,06,66,664 1,98,60,566 1,85,95,464 1,68,70,786	7.06 6.15 5.91 5.25 4.76	803 761 713 742 733	55.92 53.33 52.10 56.90 60.47
1935-36 1936-37	1,119·10 1,119·10	33,44,10,419 33,42,33,122	4,19,65,813 4,30,35,659	1,62,57,847	4·86 4·93	721 740	61·26 61·70

*Including premia paid by Government in the purchase of the line.

(b) Kolar Gold-fields railway (5' 6" gauge)-

The railway was constructed by the Mysore Durbar in order to provide facilities for the gold-fields.

Progress in opening-

	Sect	ion of	railw	ay.						Date of opening.	Miles.	Total.
		1								2	3	4
Bowringpet to Marikuppam	•	•	•		•	•	•	•	•	1-6-94	9.88	9.88

Details of construction-

. Permanent-way.—The line is laid with 76-lb. bull-headed and 75-lb. double-headed steel rails on cast iron pot sleepers.

Ballast .- The line is ballasted with stone and sand chiefly the former.

Fencing.—The line is fenced throughout.

Curves.—The sharpest curve is of 1,637 feet radius.

Gradients.—The ruling gradient is 1 in 66.66.

Agreement and contract-

Agreement, dated the 1st July 1902, between the Mysore Government and the former Madras Railway Company, as to working and maintenance, with effect from 1st January 1901.

Contract, dated the 26th June 1908 (called the principal contract), between the Secretary of State and the Madras and Southern Mahratta Ra lway Company, as to the continuance of the exist ng agreement subject to the variations and modifications thereof as therein set forth.

Agreement, dated the 30th October 1925 (supplemental to that dated 1st July 1902), between the Mysore
Government and the Madras and Southern Mahratta Railway Company, as to the variations of the
terms laid down in the principal contract.

Main provisions of agreement and contract-

- (i) Land.—Provided by the Mysore Durbar at the cost of capital.
- (ii) Government aid.—The line (which is the property of the Mysore Durbar) is maintained, stocked and worked by the Madras and Southern Mahratta Railway Company in all respects (except only as to capital expenditure which is provided by the Durbar) as part of their own undertaking.
- (iii) Terms of working.— } Maintenance and working expenses are calculated at the same pro(iv) Distribution of profi's.— } portion of the gross earnings of the Branch as obtains on the Company's system as a whole, including the Branch. But in the case of accident or damage caused
 by extraordinary casualty, e.g., by floods, each party bears its own cost of repairs, such cost being
 eliminated from the Company's revenue account before the percentage of working expenses referred to above is arrived at. The Company works the Branch for the maintenance and working
 expenses as above, plus cost of new minor works and 5 per cent. of the gross earnings of the Branch
 for the use of rolling-stock, plus the amount due by the Branch for use of the joint station at
 Bowringpet. In addition the Company receives \(\frac{1}{2} \) the of the balance which remains after payment
 of interest on the capital expenditure of the Branch incurred after the 31st December 1907.
 Further, the Branch is liable to contribute to the Madras and Southern Mahratta Railway Provident Institution, upon terms and rules and regulations to be approved by the Secretary of
 State from time to time.
- (v) Rates and fares .--
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—

The same as from time to time obtain on the Company's lines.

- (b) Bullion and coin.—
- (vii) Power of the Government to determine agreement.-Nil.
- (viii) Power of the Government to determine contract.—As in the case of Madras and Southern Mahratta railway (5' 6" gauge).
- (ix) Power of the Durbar to determine agreement.—Subject to six months' notice expiring only on the 30th June or the 31st December of any year, after the 31st December 1937, up to which date the working of the line shall be left with the Company.
- (x) Power of the Durbar to determine contract.—Nil.

(b) Kolar Gold-fields railway (5' 6" gauge)—concld.

Main provisions of agreement and contract-concld.

- (xi) Power of the Company to determine agreement.—Subject to six months' notice expiring only on the 30th June or the 31st December in any year; and also to withdraw from the agreement if sanction be accorded to the construction of a competing line to the gold-fields.
- (xii) Power of the Company to surrender contract.-Nil.
- (xiii) Term of agreement.—Not specified.
- (xiv) Term of contract.—As in the case of Madras and Southern Mahratta railway (5' 6" gauge).

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14).—

Year.		Mileage open nt	Total capital outlay, including susponse to end of each year, i.e., outlay on (i) lines open, and (ii) linespartly or wholly under construction.	Gross carnings.	carnings.	Percentago of net earn- ings on total capital outlay given in column 3.	Earnings per mile per week	Proportion of expensis to earnings
1		2	3	4	5	6	7	8
		Miles.	R•	Rs.	Ra.		' I) a i	
1013-14 .		9.88	12,08,566	1,73,810	05,189	5 30	339	62.50
1914-15		D·88	12,09,632	1,77,599	66,006	5.46	346	62.83
1915-16	•	0.88	12,09,192	1,71,911	70,115	5.80	334	59-17
1916-17		9.88	12,09,193	1,69,802	71,833	5.04	331	57.70
917-18	•	9.88	12,12,706	1,71,628	79,971	6.20	331	53-40
918-19		9.88	12,14,215	1,63,702	73,318	6.04	319	55-24
919-20		9.88	12,23,809	1,70,682	65,096	5-30	332	61.33
920-21		9.88	12,23,309	2,03,107	56,131	••59	395	72.33
921-22		9.88	12,25,248	2,02,524	47,685	3.89	196	76-15
922-23 .		o·88	12,25,137	2,08,627	62,068	5.07	406	70.25
023-21		0-88	12,25,289	1,82,760	65,878	5∙3 8	356	63 - 95
924-25		9.88	12,26,385	1,58,980	58,744	4.79	309	63.05
925-26		0.88	12,26,632	1,65,524	61,609	4.97	321	63.10
1926-27		9.88	12,26,629	1,59,584	59,108	4.83	310	62+99
927-28		v-88 ∤	12,26,629	1,61,866	54,860	4.47	313	66-11
928-29		9.88	12,27,763	1,60,675	69,095	5.63	312	57.00
929-30		9.88	12,52,244	1,66,760	65,760	5.25	324	60-57
930-31		9.88	12,52,244	1,46,510	52,453	4.10	285	64.20
931-32	.	9.88	12,51,995	1,62,236	65,875	5.26	316	59.39
032-33	.	9.88	12,51,796	1,76,348	63,171	5.05	313	64.18
933-34	.	9.88	12,51,974	1,75,172	65,813	5-27	311	62.43
034-35		9.88	12,47,469	1,63,886	55,073	4.41	319	66-40
035-36		0.88	12,47,469	1,73,902	55,532	4 · 45	338	68.07
936-37		9.88	12,47,469	1,97,818	66,384	5.32	385	66.45
				i	1			

^{*}Payable to Mysore Durbar as surplus profits.

(o) Tenali-Repalle railway (5' 6" gauge)-

The construction of this line by the Madras and Southern Mahratta Railway Company, at the cost of the District Board of Guntur, was sanctioned in Railway Board's Notification No. 110, dated the 9th April 1913.

Progress in opening-

		S	Section	n of ra	ailwa	ŗ.				Date of opening. 2	Miles.	Total.
Tenall to Repaile	•	•	•	•	•	•	•	•	•	8-3-16	21 · 41	21 • 41

Details of construction -

Permanent-way.—The line is laid with 75-lb. flat-footed British standard steel rails on timber sceepers.

Ballast .- The line is ballasted with sand.

Fencing.-Only the station yards are fenced.

Curres.—The sharpest curve has a radius of 1,432 feet.

Gradients.—The ruling gradient is 1 in 150.

Agreement and Contract .---

"Agreement dated 14th December 1936 between the Secretary of State for India in Council and the District Board of Guntur for working the Tenali-Repalle Branch Railway through the Agency of the Madras and Southern Mahratta Railway Company.

(This agreement shall be deemed to have come into force from the 8th March 1916).

Deed dated 24th day of March 1937 between the Secretary of State in Council of India and the Madras and Southern Mahratta Railway, Co., Ltd., for the continued working of the Company and State Lines.

Main provision of agreement and contract.-

- (i) Land .- Provided by the Government free of cost.
- (ii) Government aid.—
- (iii) Terms of working-
- (iv) Distribution of profits.

The line (which is the property of the District Board of Guntur) is maintained and worked as an integral part of the Company's system by the Madras and Southern Mahratta Railway Company, who provides the rolling stock and other appliances, etc., necessary thereunto.

For these services the Secretary of State is to receive half-yearly 50 per cent. of the gross earnings of the Branch, the balance, after meeting the cost of new minor works and any expenditure incurred on the Branch on account of extraordinary casualty such as bursting of dams, etc., being handed over to the District Board.

By way of rebate the Secretary of State is to pay in respect of and at the end of each financial year such a sum not exceeding in any year the net earnings (exclusive of earnings derived from the Carriage of revenue stores) from traffic inter-changed between the Company's Railway and the Branch as shall together with the aforesaid balance of gross earnings of the Branch make up an amount equal to interest at the rate of 3½ per cent. per annum on the Capital cost of the Branch. This undertaking shall be subject to the proviso that when the aforesaid balance of gross earnings of the Branch without the assistance of a rebate, suffices to pay interest at a rate exceeding 3½ per cent. on the capital cost of the Branch, the surplus shall be divided equally between the Secretary of State and the District Board.

- (v) Rates and fares .-
- (vi) Special obligations as to the conveyance of .-
 - (a) Mails, troops, police, high Government officials and Government stores,—
 - (b) Government bullion and coin.-

The same as from time to time obtain on on the Madras and Southern Mahratta Railway.

(vii) Power of the Government to determine agreement.—The Secretary of State may give to the District Board notice in writing (which notice is herein referred to as notice of purchase) of his desire to determine the agreement either on the 31st day of March of the tenth year from the date of this agreement or on the 31st day of March in the last year of any subsequent period of ten years, such notice being given not less than 12 months prior to the 31st day of March mentioned therein as the day of determination and pay on such determination as purchase price a sum of money equal to 25 times the average yearly net earnings of three years preceding purchase subject to a maximum price of 120 per cent. of the total capital expenditure of the branch on a rupee basis.

- (c) Tenali-Repalle railway (5' 6" guage)—concll.
 - Main provisions of agreement and contract-concld.
 - The Secretary of State may also at any time give to the District Board notice in writing (which notice is herein referred to as notice of special purchase) of his desire to determine the agreement on any date mentioned therein for any one or more of the following reasons:—
 - (a) that the Secretary of State considers it desirable that the gauge of the said Branch should be altered;
 - (b) that it is desired to convert the branch line into a line of through communication;
 - (c) that the Secretary of State desires to extend the said Branch and that (if such be the case) the District Board has not within six months from the date of a formal requisition from the Secretary of State requiring it to raise and provide the capital necessary for the construction of the extension raised or provided such additional capital—
 - and pay on the determination of the agreement, which shall take place at the expiration of twelve months from the date of such notice, as purchase price a sum of money equal to 25 times the average yearly net earnings of three years preceding purchase subject to a maximum of 115 per cent. of the total capital expenditure of the Branch on rupee basis.
 - (viii) Power of the Government to determine contract.—As in the case of Madras and Southern Mahratta Railway (5'-6" gauge).
 - (ix) Power of the Guntur District Board to determine agreement .-
 - (x) Power of the Guntur District Board to determine contract.—
 - (xi) Power of the Company to determine agreement.—
- (xii) Power of the Company to surrender contract.
- (xiii) Term of agreement [if not determined under (vii)].—

Not specified.

Nil.

(xiv) Term of contract [if not determined under (viii)].— As noted under Madras and Southern Mahratta Railway (5'-6" gauge).

Statistics of working-

Year	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gros- earnings	Net carnings.	Percentage of net carnings on total capital outlay given in column 3.	Earnings per mile per week,	Croportion of expenses to earnings.
1	2	3	4	5	ß	7	ε
	Milos.	Rs.	Rs.	Rs.		Rs.	
1915-16	21.09 21.50 21.50 21.50 21.50	12,14,651 14,24,068 14,85,815 14,81,998 14,88,245	3,169 1,06,811 1,09,583 1,01,601 1,20,781	1,585 53,405 51,792 50,801 69,390	0·13 3·75 3·69 3·42 4·06	75 96 98 91 108	50·00 50·00 50·00 50·00
1920-21	21 · 41	14,86,938	1,40,672	70,336	4.73	126	50-00
	21 · 41	14,86,938	1,54,561	77,252	5.20	139	50-00
	21 · 41	14,94,195	1,93,124	99,062	6.63	178	50-00
	21 · 41	15,12,234	2,09,516	1,01,758	6.93	188	50-00
	21 · 41	15,29,222	2,39,416	1,19,703	7.83	211	50-00
1925-26	21·41	15,33,546	2,42,641	-28,345	-1:85	217	111-70
	21·41	15,46,461	2,67,240	93,737	6:06	239	64-90
	21·41	15,53,989	2,76,466	95,952	6:17	247	65-29
	21·41	15,62,878	2,70,870	91,975	6:08	243	64-93
	21·41	15,76,375	2,77,172	96,738	6:14	248	65-10
1930-31	21·41	15,88,714	2,49,280	89,953	5.66	224	63:91
	21·41	15,93,421	1,88,212	74,897	4.70	169	60:21
	21·41	15,96,679	1,96,020	76,919	4.82	176	60:76
	21·41	15,96,679	1,79,662	72,853	4.57	161	59:45
	21·41	16,96,679	1,89,127	75,223	4.71	170	60:22
1935-36	21·41	15,97,148	1,98,600	77,597	4·86	178	60·93
	21·41	15,98,514	2,03,177	78,756	4·93	182	61·24

(d) Madras and Southern Mahratta railway (3' 33" gauge)—

The Madras and Southern Mahratta 3' 33" gauge railway is the former Southern Mahratta railway in amalgamation with the sections (Pakala to Dharmavaram and Katpadi to Gudur) of the South Indian railway taken over, and the lines formerly known as the Bellary-Rayadrug, Hospet-Kottur and Guntakal-Mysore Frontier railways.

(d) Madras and Southern Mahratta railway (3' 33" gauge)—contd.

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	Remarks.
1	2	3	4	5	6
Main line— Frontier to Castle Rock CastleRock to Deuli Douli to Dharwar Dharwar to Hospet Hospet to Bellary, Bellary to Guntakal* Guntakal to Nandyal Nandyal to Cumbum Cumbum to Tadepalli Tadepall ito Bezwada		3.63 2.75 56.00 101.27 40.51 30.10 90.79 63.18 122.41 2.97	513-61		* This section, which was opened throughout in 1871 as a 5' 6' gauge branch of the former Madras railway was made over to the former Southern Mahratta Railway Company on 1st Feb-
Branches— Harihar branch— Hubli to Harhar	18-10-86	80.79	80.79		rnary 1887 and converted to 3'33" gauge on the 16th May 1887.
Bijapur branch— Gadag to Hotgi Hotgi to Sholapur	1-8-84 15-5-27	173.08 9.25	182.33		
Poona branch— Londa to Belgaum Belgaum to Miraj Miraj to Koregaon Koregaon to Ghorpuri Ghorpuri to Poona	21-3-87 22-12-87 2-5-87 18-11-86 4-10-90	31.80 85.88 76.00 83.07 0.91	100 00		
Guntakal Mysore Frontier branch— Guntakal to Dharmavaram Dharmavaram to Hindupur	1-3-92 23-4-93	63·15 49·28 7·27	277.66		
Hindupur to Mysoro Frontier Bellary-Rayadrug branch— Bellary to Rayadrug	17-7-93	33.35	119.70		
Hospet-Kottur branch— Hospet to Kottur Gunda Road to Nagalapuram Nagalapuram to Ramandrug Ramandrug to Kanivihalli Kanivihalli to Swamihalli	1-4-05 1-12-06 24-5-09 1-10-10 3-3-28	43.16 †3.43 2.84 6.79 11.74	33.35		† The decrease is due to dismantle- ment between Nagalpuram and Ramanamalai branch on 31-3-1936.
Katpadi-Dharmavaran oranch— Katpadi to Pakala Pakala to Vayalapad Vayalapad to Dharmavaram	18-3-91 1-1-92 20-3-92	39.48 48.69 94.14	67.96		
Pakala-Gudur branch— Pakala to Tirupati West Tirupati West to Gudur	18-3-91 15-9-87	25·05 59·05	84·10		
Gudivada to Bhimavaram Guntur to Macherla	17-9-28 15-1-30	40·60 79·83	40.60 79.83		
Dronachellam Karnool Railway— (At Dronachellam)	1-1-09	0.09	0.09		
Double Line Poona—Dhorpuri	2-3-34	1.15	1.15	1,660.33	

Details of construction-

Permanent-way.—The rails in use are of 41½-lb., 50-lbs., 60-lbs. and 75-lbs. (II hand) flat-footed steel. The sleepers are teak, sâl, jamba, pine and Australian eucalyptus and steel trough.

Ballast.—The line is ballasted with stone, gravel, sand and moorum.

Fencing.—The lines from Hospet to Kottur, Bellary to Rayadrug, Hotgi to Sholapur and Kanivihalli to Swamihalli are unfenced, those from Pakala to Dharmavaram and Katpadi to Gudur are fenced only at stations, and the rest are partially fenced.

Curves.—The sharpest curve is of 479 feet radius.

Gradients.—The ruling gradient is 1 in 100, except for a short length between Hospet and Papin-rayakanahalli where the gradient is 1 in 91.92, on the Braganza Ghats (between miles 0 and 3 on the main line) and between Gunda Road and Kanivihalli, where the gradient is 1 in 41, and on the sections between Hospet and Kottur. Bellary and Rayadrug and Kanivihalli to Swamihalli, where it is 1 in 60.

Contracts---

This line forms part of the Madras and Southern Mahratta projected railway within the meaning of the original contract of the 1st June 1882, as supplemented by the principal contract of the 26th June 1908, the main provisions of which are stated under Madras and Southern Mahratta railway (5' 6" gauge).

(d) Madras and Southern Mahratta railway (3' 38" gauge) -concld.

Statistics of working-

- Note.—(i) The amount of sterling liabilities involved in the purchase of railways included in the figures shown in col. 3 below against 1933-34 and 1934-35, has been converted at the rates of exchange ruling at the time when the liabilities came into being as against the statutory rate of exchange, i.e., 1s. 6d. proviously adopted. From the year 1935-36 onwards, the same amount has been reconverted at the latter rate.
- (ii). From the year 1936-37, the Net earnings have been arrived at after taking into account the appropriation to Depreciation fund instead of actual expenditure on 'Replacements and Renewals' previously accounted for.

Includes the Madras and Southern Mahratta Rallway (5' 6" gauge).

			mendues the	mautas a	nu southe	ern manra	ua Hallway	(o o ga	uge).			
Year,	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (6) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings	Percentage of net earnings on total capital outlay, or capital nt charge, given in column 3.		Annuity.†	Company's share of surplus profits (based on terms of contract) attributable to each year,	Percentage of Company's share of net earnings (surplus profits Thus guaranteed interest on the capital) on Company's capital.	Gain or loss to the State pertaining to each year.	Earn- ings per mile per week,	Pro- por- tion of ex- penses to earn- ings.
1	2	3	4	5	ő	7	- 8	0	10	11	12	13
1908 .	Miles. 2,512.85	20,65,72,872	R4. 2,82,50,070	R*. 97,96,440	3.30	Re. 85,17,070	IR . 50,81,010	Ra 5,84,312	Rs. 4-28	Re. 52,86,852	Rs. 214	65.32
1909 .	2,545.74	30,21,58,743	2,07,71,171	1,19,36,603	3.05	91,55,944	73,25,715	5,58,508	4:24	-51,03,474	223	59-91
1910 .	2,552.53	30,63,87,664	3,11,30,143	1,30,92,155	4.27	02,60,701	73,25,715	8,19,124	4.59	-43,22,475	235	57-94
1911 .	2,552-53	31,14,03,230	3,29,20,664	1,41.77,381	4.55	04,61,902	73,25,730	11,05,276	4.07	-37,15,527	247	56.02
1912 .	2,552.53	31,27,38,275	3,53,32,010	1,61,26,469	5.16	96,17,034	73,25,715	10,44,270	5-60	-24,60,550	266	54-36
1st qr. of 1918.	2,552-53	31,57,83,052	00,56,648	49,01,725	1.22	24,13,007	18,31,425	7,03,909	1.÷ā	+11,384	291	48-62
1913-14	2,552.63	32,04,06,530	3,72,78,171	1,64,35,222	5.13	1,08,01,877	73,25,715	17,59,306	5.85	35,41,666	281	65-91
1014-15	2,651-33	32,38,02,264	3,73,07,039	1,63,30,824	5.04	1, 18,13,624	73,25,715	16,73,507	5.73	-44,82,022	291	50.23
1915-16	2,567-19	32,41,67,972	4,15,37,815	1,00,09,001	6.08	1,10,67,730	73,25,715	26,90,003	7.00	-13,83,466	313	52-57
1916-17	2,507.21	32,61,13,857	4,04,06,075	2,27,72,156	6.03	1,03,72,280	73,25,715	35,72,092	8.20	+10,01,179	348	50.62
1917-18	2,549.86	32,73,42,551	5,13,54,056	2,74,63,654	8.30	1,12,74,860	73,25,715	49,07,193	10.04	+39,55,874	386	46.81
1918-19	2,549.86	32,92,41,816	5,41,76,036	2,82,10,588	8.57	1,13,72,021	73,25,716	51,54,045	10.37	+43,66,907	409	47.92
1919-20	2,549.86	34,03,11,935	5,70,03,699	2,60,48,983	7.65	1,00,48,760	60,80,762	48,59,222	9.38	+50,61,236	430	54.30
1920-21	2,565.54	38,23,30,000	5,81,54,882	1,08,76,483	6.20	1,05,15,611	50,74,132	32,71,645	6.63	+4,15,095	437	65.02
1921-22	2,558.78	30,19,26,032	6,09,94,017	1,82,87,665	4.07	1,34,10,485	72,17,234	15,31,607	5.37	-39,71,661	457	70.24
1922-23	2,558.78	30,00,01,339	6,78,40,078	2,42,83,400	6.08	1,34,56,039	70,17,487	27,77,446	7-20	+4,32,428	500	64 • 80
1923-24	2,560 · 21	¶ 47,51,74,231	6,92,11,208	2,94,80,222	76.20	1,30,04,941	72,06,576	41,16,108	8.50	+44,62,897	519	57.0
1924-25	2,560.21	¶ 48,25,16,592	7,32,81,346	3,37,49,787	20.00 .	1,79,86,140	‡	56,50,373	10.70	+1,01,13,274	540	53-2
1925-26	2,560.21	T 40,52,96,732	7,61,64,127	3,28,92,104	20.61	1,84,21,631	••	54,88,740	10.34	+00,31,533	560	56.89
1926-27	٠ ا	¶ 51,07,14,637	7,55,72,687	3,40,81,434	£6.67	1,89,11,713	••	54,60,284	10.40	+97,09,437	565	54-90
1927-28	2,583.54	44,06,46,446	2,00,82,512	3,37,09,065	7.65	2,05,78,801	••	49,14,376	9-54	+83,15,888	598	58.37
1028-29	2,671-93	45,69,79,304	8,62,26,695	4,37,01,879	9.50	2,14,62,965	••	74,09,199	•	+1,48,20,715	617	19.32
1929-30	2,770.83	47,51,64,792	8,38,90,929	3,90,33,011	8.34	2,18,58,839	••	61,39,138	11.30	+1,10,35,634	577	62.7
1930-31	2,780.95	48,33,76,187	7,44,16,673	3,13,48,051	6.40	2,32,95,643		40,06,126	8-45	+40,46,232	515	57.87
1931-32	2,780.58	53,10,62,794	7,14,44,256	3,18,25,922	5.00	2,38,32,615	••	41,31,679	8.62	+39,61,728	494	85.45
1932-33	2,780 * 59	53,14,31,359	0,70,62,516	2,01,75,134	5.40	2,38,12,221	••	31,44,627	7-30	+22,18,286	464	50.50
1933-34	2,780.59	55,06,91,745	0,97,28,394	3,07,19,865	5.28	2,36,74,418	••	36,31,098	7.05	+34,17,035	482	55.04
1934-35 1935-36 1936-37	2,780·03 2,770·43 2,770·43	55 20 23,558 53 26,73,170 53 20 57,183	6,78,22,900 6,62,84,629 6,72,55,280	2,75,04,369 2,52,21,777 2,46,37,018	4.08 4.73 4.62	2,32,13,050 2,29,00,733 2,25,09,642	::	20,70,613 19,38,601 23,95,810	6·68 5·70 6·31	+10,14,706 +3,82,443 -2,67,834	469 459 465	59.45 61.95 63.37
				<u> </u>	<u>' </u>			·				

*Incliding the premia paid by Government in the purchase of the line. (For convenience the portion of the premia in connection with the purchase of the Madras Railway debitable to the South Indian Railway on account of the portion of Madras Railway amalgamated with the former is also included in these figures).

the convenience the portions of annuity charges due to the purchase of the Madras Railway debitable to the South Indian Railway for portion of Madras Railway amaignmented with the latter have been included with these figures.

the capital account was permanently debited with the balance of capital liability outstanding on 31st March 1924 in respect of the purchase of Aladras Railway under redemption by annuities and sinking Fund on which full interest is charged in column 7.

T Revised figures.

(e) Alnavar-Dandeli (Provincial) railway (3' 3% gauge)-

The construction of this line by the Madras and Southern Mahratta Railway Company, on behalf of the Government Forest Department, was sanctioned in Railway Board's Notification No. 825-P.—16, dated the 31st January 1918.

Progress in opening-

	Se	otion :	of rai	lway.				Date of opening.	Miles. 3	Total.
Alnavar to Dandeli	•	•	•	•	•	•	•	1-2-19	19.12	19•12

e) Alnavar-Dandeli (Provincial) railway (3' 33" gauge)—concld.

Details of construction-

Permanent-way.—The line is laid with new 41½-lb. flat-footed British standard section steel rails on timber sleepers.

Ballast.—The line is ballasted with moorum and stone.

Fencing.—The line is unfenced.

Curves.—The sharpest curve has a radius of 636 feet.

Gradients.—The ruling gradient is 1 in 80.

Contracts-

Dated the 26th July 1928 between the Government of Bombay and the Madras and Southern Mahratta Railway Company.

The line is the property of Bombay Government. It was constructed and is being worked, for the carriage of timber for the Government Forest Department at a charge of Re. 1-8-0 per ton. The cost of working is borne by Bombay Government.

Main Provisions of Contract and Agreement-

(i) Terms of working.-

Rombay Government to pay.—

- (1) actual cost under Abstract A,
- (2) expenditure under other Abstracts, viz., B, C, E, F and G at Rs. 2 per train mile of run over Alnavar Dandeli Railway and Re. 1 per mile for light engines run between Hubli and Alnavar for the purposes of Alnavar Dandeli Railway,
- (3) Rs. 250 half-yearly for Joint Station expenses,
- (4) interest and maintenance charges on works constructed for the sole use of the Railway within the Joint Station limits of Alnavar, (Vide clause 6 of the Agreement as amended by the Railway Board's letter No. 4754-F. of 23rd December 1936).
- (5) a hire charge of 5 per cent. for interest and 1 per cent. for profit on the capital cost of all Rolling Stock belonging to the Madras and Southern Mahratta Railway available for traffic purposes,
- (6) hire for the stock used on Ballast trains.
- (7) Stock to be hired to the Branch line by the Company at the same rate that Foreign Railway charges the Company for its use and the maintenance of this hired stock to be undertaken by the Company as in the case of its own stock.
- (8) The Company to be indemnified from loss by extraordinary damage to its own or hired Rolling Stock while on the Branch.
- (9) Cost of works required at the Joint Station for the sole use of the Branch of which capital does not exceed Rs. 1,000 each to be debited to Government as well as 3 per cent. per annum for maintenance charges as per clause 7 of the terms of working.
- (ii) Rates and Fares.—As approved by the Bombay Government.
- (iii) Term of contract.—The agreement comes into force from 1st February 1919 and can be terminated by giving at least six months' notice by either side desiring to revise or cancel it.
- (iv) Compensation on termination of Contract.—As determined by mutual agreement or if necessary by the Railway Board.

Statistics of working-

Year. •	Mileage open at end of each year.	Total capital outlay, inlouding suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column 3.	Earnings per mile per week.	Proportion of ex- penses to earnings.
1923-24 1924-25 1925-26 1926-27 1927-28 1928-29 1929-30 1930-31 1931-32 1932-33 1933-34 1934-35 1936-36	Miles. 19·12 19·12 19·12 19·12 19·12 19·12 19·12 19·12 19·12 19·12 19·12 19·12 19·12 19·12 19·12 19·12	Rs. 8,87,000 8,86,831 8,86,831 8,86,762 8,86,762 8,86,762 8,86,762 8,86,762 8,86,762 8,86,762 8,86,762 8,86,762 8,86,762 8,86,762 8,86,762 8,86,762 8,86,762	Rs. 31,000 33,901 45,574 70,020 53,277 47,817 40,938 43,069 40,848 47,401 44,698 41,624 38,568 26,483	Rs20,000 -7,597 -8,326 23,798 3,398 8,688 -4,828 -766 -3,641 6,988 803 -3,902 -7,061 -11,454	2.68 0.38 0.98 0.79 0.11	Rs. 31 34 46 70 53 48 41 43 41 48 42 39 27	164 · 67 122 · 41 118 · 20 66 · 00 93 · 62 81 · 83 111 · 79 101 · 78 108 · 91 85 · 26 98 · 20 109 · 37 118 · 31 143 · 25

(f Bangalore-Harihar railway (3' 33" gauge)-

This line is one of the two sections which previously formed the Mysore section (Madras and Southern Mahratta railway). The other section from Mysore to Bangalore which was made over to the Mysore Durbar, with effect from the 1st October 1919, is now known as the Mysore-Bangalore railway.

Progress in opening-

		Sect	ion of	railw 1	ay.						Date of opening.	Miles.	Total.
Bangalore to Tumk	ur		•	•		•				•	11-8-84	42.73	
Tumkur to Gubbi	•	•		•							26-12-84	11.00	
Gubbi to Birur								•	·		12-8-89		
Birur to Harihar	•	•	•	•	•		•	•	•	•	21-2-89	76·57 80·19	
								тот	LYF				210.4

Details of construction-

Permanent-way.—The permanent-way consists of 60-lb. flat-footed rails, chiefly steel laid on Mysore teak sleepers with a small proportion of steel trough sleepers.

Ballast.—The line is ballasted throughout with stone, sand and moorum.

Fencing.—The line is only partially fenced.

Curves.—The sharpest curve has a radius of 3,000 feet.

Gradients.—The ruling gradient is 1 in 100.

Contracts-

Dated the 31st August 1887, between the Secretary of State and the former Southern Mahratta Railway Company, as to the construction, maintenance and working of the Mysore State railway (from Mysore to Harihar).

Dated the 26th June 1908 (called the principal contract), between the Secretary of State and the Madras and Southern Mahratta Railway Company, as to the continuance of the existing contract subject to the variations and modifications thereof as therein set forth.

Dated the 24th October 1924 (supplemental to the contracts of 1887 and 1908) between the Secretary of State and the Madras and Southern Mahratta Railway Company, as to the transfer of the Mysore-Bangalore section of the Mysore railway to the Mysore Durbar with effect from the 1st October 1919.

Deed dated the 24th day of March 1937, between the Secretary of State in Council of India and the Madras and Southern Mahratta Railway Co. Ltd. (Premables 6 and 7) as to the determination of the Indentures dated the 31st day of August 1887 and all amendments and variations thereof on the 31st day of December 1937.

Main provisions of contracts-

- (i) Land .- Provided by the Government on behalf of the Mysore Durbar at the cost of capital.
- (ii) Government aid.—The railway, which (as between the Government and the Company, and without prejudice to any arrangements between the former and the Mysore Durbar) is declared to be absolutely the property of the Government, was constructed and equipped with rolling-stock and all other appliances necessary thereunto, and is maintained and worked by the Madras and Southern Mahratta Railway Company, on behalf of the Government. All funds for capital expenditure are provided by the Durbar, under capital expenditure being included the cost of stores.

Government guarantee interest in sterling, payable half-yearly on the 1st April and 1st October, at the rate of 4 per cent. per annum on the sum of £1,200,000, the nominal amount of debenture stock issued by the Company.

(iii) Terms of working.—

From the joint working appearance of the state of the st

(iii) Terms of working.—

From the joint working expenses of the entire system are first deducted certain "direct" charges, viz., on account of new minor works, Government supervision and control, payment for use of py the railways incurring them. The balance of the joint working expenses is then divided as between the whole system and the Mysore section in proportion to the gross earnings of each. The share of the Mysore section thus arrived at, added to the "direct" charges incurred on that section, form the working expenses of the Mysore section.

The gross receipts attributable to the Mysore section are applied—

- (a) in discharge of the working expenses arrived at as above; and
- (b) in payment of interest at 4 per cent. on capital expenditure incurred on the section after 31st December 1907 to 30th September 1922 and at 6 per cent. since 1st October 1922;
- (c) the surplus being divided between the Government (on behalf of the Durbar) and the Company in the proportion of $\frac{10}{20}$ and $\frac{1}{20}$, respectively.

(f) Bangalore-Harihar railway (3' 38" gauge)-concld.

Main provisions of contracts-concld.

- (v) Rates and fares .--
- (vi) Special obligations as to the conveyance of .-
 - (a) Mails, troops, police, high Government officials and Government stores—
 - (b) Government bullion and coin-
- (vii) Power of the Government to determine contract .-
- (viii) Power of the Company to determine contract .--
 - (ix) Term of contract .-

N.B.—The above terms which were applicable to the whole of the Mysore-Harihar line, up to the 30th September 1919 will now apply to the Bangalore-Harihar railway only.

As in the case of the Madras

(5' 6" gauge).

and Southern Mahratta railway

Statistics of working (Those for the periods prior to 1887 will be found in Appendix 38 to the Railway Admin'stration Report for 1907)—
Includes the Hindupur (Yesvantpur-Mysore Frontier) railway from 1908; and the Birur-Shimoga, Mysore-Nanjangud and Mysore-Bangalore railways from 1908 to the 30th September 1919

Year.	Mileage open at end of each year.	Total capital outlay, including ruspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction,	Gress carnings	Net earnings.	Percentage of net earnings on total capital outlay given in column 3.	Interest.	Company's share of surplus profit (based on terms of contract) attributable to each year.	Gain or loss to the State pe trining to each year.	Earn- ings per mile per week.	Pro- por- tion of ex- pens- es to earn- ings.
1	2	3	4	б	- 6	7	8	9	10	11
	Miles.	Rs.	Rs.	Rs.		R₽.	Rs.	Rs.	Rs	
1887 . 1888 . 1889 . 1890 . 1891 . 1892 . 1893 . 1894 .	139-75 139-75 290-00 296-00 296-00 296-00 296-00 296-00 296-00	91,36,438 1,25,76,692 1,44,24,093 1,47,11,610 1,50,76,285 1,46,36,205 1,46,42,217 1,47,60,293 1,49,22,452	5,13,259 5,70,657 8,96,273 11,86,318 13,21,525 13,99,463 16,83,202 11,15,412 15,79,281	1,40,723 1,31,031 2,10,813 2,50,084 4,39,280 4,43,427 6,74,562 4,77,149 6,20,385	1·54 1·07 1·52 1·76 2·91 3·03 4·61 3·23 4·22	6,70,864 6,91,210 7,07,500 6,48,733 6,54,850 7,29,624 7,70,439 8,38,525 8,70,947	35,018 33,607 51,991 64,772 1,09,760 1,10,863 1,68,171 1,19,039 1,56,931	-5,65,159 -5,93,786 -5,42,678 -4,51,421 -3,25,330 -3,97,060 -2,01,049 -4,80,415 -3,99,493	71 79 72 77 86 91 109 91 103	72.58 76.51 75.47 78.16 66.83 68.31 59.92 66.99
1896	296.00 296.00 296.00 296.00 296.36 296.22 296.22 296.22 296.22	1,51,08,257 1,51,99,757 1,55,07,319 1,56,75,416 1,58,70,510 1,60,14,879 1,60,76,009 1,62,34,903 1,62,59,791 1,64,78,981	15,91,981 18,80,019 13,92,851 10,66,469 13,76,391 14,33,240 15,97,046 15,35,270 15,85,324 17,90,901	6.76,976 7,98,285 4,13,421 3,29,033 4,71,201 4,07,791 5.55,082 5,82,298 5,63,667 6,98,051	4·48 5·25 2·67 2·10 2·97 2·55 3·47 3·59 3·47 4·24	8.21,588 7,75,708 7,38,461 7,21,117 7,18,200 7,22,244 7,21,062 7,20,000 7,20,000 7,20,000	1.69.189 2,00,031 1,02,680 82,076 1,18,883 1,91,860 1,39,538 1,46,012 1,40,940	3,13,801 -1,77,154 -4,27,720 -4,74,160 -3,65,887 -4,16,313 -3,02,518 -2,83,714 -2,07,273 -1,95,832	103 122 90 69 89 93 104 100 103 116	57·29 57·54 70·32 68·97 71·55 65·06 62·07 64·44 61·03
1906 1907 1908 1909 1910 1911 1912 1st qr. of	296 · 22 296 · 22 401 · 29 401 · 29 401 · 29 401 · 29 401 · 29 401 · 29	1,65,59,502 1,70,31,855 2,29,75,788 2,32,36,445 2,35,17,190 2,36,85,390 2,37,80,303 2,40,63,067	18,48,348 21,57,636 30,71,040 26,71,013 28,00,896 28,55,654 33,53,931 9,40,540	7,19,072 8,44,427 11,66,353 10,67,326 11,28,684 12,07,863 14,93,756 4,75,274	4·34 4·96 5·08 4·59 4·80 5·10 6·28 1·98	7,20,000 7,20,000 8,64,049 10,43,592 10,48,897 10,60,843 10,63,291 2,67,455	1,79,500 2,11,172 1,51,026 55,389 57,763 61,457 75,262 24,132	-1,80,428 -87,045 +1,50,378 -31,656 +22,024 +85,563 +3,55,203 +1,83,687	120 140 147 128 134 137 161 180	61 · 10 60 · 86 62 · 03 60 04 59 • 70 57 · 70 55 · 40 49 · 47
1913-14 1914-15	401 · 35 401 · 35	2,43,70,036 2,42,41,450	36,51,923 34,77,899	15,89,726 14,82,838	6 · 52 6 · 12	10,75,557 10,83,776	79,836 73,981	+4,34,333 +3,25,081	175 167	56·47 57·37
1915-16 1916-17 1917-18 1918-19 1918-20 1920-21 1921-22 1922-23	401 · 35 401 · 35 401 · 35 401 · 35 261 · 60 261 · 60 261 · 60 261 · 60	2,43,43,685 2,44,88,478 2,47,22,416 2,49,48,980 1,69,77,616 1,69,74,624 1,73,64,567 1,75,49,460	35,94,259 38.16,213 39,75,088 42,31,709 19,65,763 35,35,779 36,11,239 42,29,219	16,67,478 18,27,236 20,76,203 21,75,151 17,04,122 11,71,902 10,54,616 14,84,752	6.85 7.46 8.40 8.72 7.07 6.94 6.07 8.46	10,86,828 10,88,546 10,97,276 11,06,632 8,22,044 6,21,415 7,87,785 8,40,659	83,396 90,918 1,01,691 1,07,960 88,812 56,586 50,723 71,593	+4,97,254 +6,48,672 +8,74,236 +9,60,559 +8,83,266 +4,93,901 +2,16,138 +5,72,500	172 183 191 205 230 260 265 311	53.61 52.12 47.78 49.23 54.76 66.84 70.80 64.89
1923 24 1924-95 1925-26 1926-27 1927-28 1928-29 1929-30 1930-31 1931-32 1932-33 1933-34 1934-35 1936-37	261 · 60 261 · 60 261 · 60 261 · 60 261 · 60 261 · 60 261 · 60 261 · 68 261 · 68 261 · 68 261 · 68 261 · 68 261 · 68	1,76,92,195 1,78,63,666 1,81,81,324 1,83,32,641 1,85,46,178 1,87,01,179 1,92,86,627 1,95,01,066 2,01,98,761 2,02,16,908 2,04,20,066 2,05,12,284 2,06,30,502 2,09,33,347	42 55,309 44,28,711 56,52,633 47,75,414 51,12,986 48,68,171 47,05,004 41,91,789 42,70,133 39,96,627 36,82,407 37,07,109 37,07,109 37,46,410 37,68,271	17,81,335 19,11,105 20,54,809 21,11,312 21,12,350 22,18,753 17,05,574 19,82,378 16,42,839 16,24,791 15,00,814 14,36,542 14,88,940	10.06 10.70 11.30 11.50 11.50 9.05 9.81 8.13 7.96 7.32 6.96 7.11	8,06,965 7,68,865 7,65,994 7,79,270 7,94,024 8,17,764 8,28,769 8,43,077 8,47,503 8,53,324 8,57,622 8,66,044	86,344 92,196 98,825 1,00,646 99,913 1,16,323 1,03,825 79,470 89,761 71,739 70,323 62,991 59,764 62,286	+\$ 88,026 +10,50,049 +12,01,378 +12,42,381 +12,42,381 +15,42,902 +13,20,904 +8,68,560 +10,63,848 +7,28,023 +7,06,965 +5,84,499 +5,19,166 +5,60,616	313 325 341 350 374 357 349 308 314 294 271 272 275 277	58·17 56·85 55·80 54·60 58·69 58·69 53·58 57·90 53·58 58·89 55·88 59·52 61·66 60·49

^{*} Payable to Mysore Durbar as surplus profits.

(g) Bezwada-Masulipatam railway (3' 3 g" gauge).—

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.	
Bezwada to Masulipatam		4-2-08 1-1-09	49·47 , 2·33	
TOTAL		••		51.80

Details of construction-

Permanent-way.—The permanent-way consists of 411-lb. flat-footed steel rails on teal sleepers.

Ballast.—The line is ballasted with stone and moorum.

Fencing.—The station yards only are fenced.

Curves.—The radius of the sharpest curve is 717 feet between Masulipatam and Tidal Lock.

Gradients.—The ruling gradient is 1 in 200.

Agreement and contract-

Agreement, dated the 4th February 1908, between the District Board of Kistna and the Madras and Southern Mahratta Railway Company, as to maintenance and working, having effect from the 4th February 1908, the date of opening of the Branch.

Contract, dated the 26th June 1908 (called the principal contract), between the Secretary of State and the Madras and Southern Mahratta Railway Company, as to the continuance of the existing agreement subject to the variations and modifications thereof as therein set forth.

Agreement, dated the 18th December 1914, between the District Board of Kistna and the Madras and Southern Muhratta Railway Company, as to the adoption of the Government financial year for preparation of accounts

Deed dated the 24th day of March 1937, between the Secretary of State in Council of India and the Madras and Southern Mahratta Railway Company Limited (Preamable 8) as to the purchase of the Branch line by the Government on the 3rd day of February 1938.

Main provisions of agreement and contract-

- (i) Land.—Provided by the Government free of cost.
- The line (which is the property of the District Board of Kistna, is (ii) Government aid .-

maintained and worked as an integral part of the Company's system (iii) Terms of working. by the Madras and Southern Mahratta Railway Company, who pro-(iv) Distribution of profits.—)

vides the rolling-stock and other appliances, etc., necessary thereunto.

For these services the Company is to receive half-yearly 45 per cent. of the gross earnings of the Branch, the balance, after meeting the cost of new minor works, being handed over to the District Board.

By way of rebate the Company is to pay to the District Board, in respect of, and at the end of each year, such a sum not exceeding in any year 10 per cent. of the share attributable to the Company's system of the gross earnings from traffic (except stores) interchanged between the Company's system and the Branch railway as shall, together with the net earnings of the Branch for such year, make up an amount equal to interest for the year at the rate of 31 per cent, on the actual expenditure charged in its capital account.

(v) Rates and fares .-

(vi) Special obligations as to the conveyance of-

(a) Mails, troops, police, high Government officials and Government stores.-

The same as from time to time obtain on the Madras and Southern Mahratta railway.

(b) Government bullion and coin.—

(vii) Pouer of the Government to determine agreement.--The Government may purchase the Branch line at the expiry of 30 years, or at subsequent periods of 10 years, on twelve months' notice given, at a price 25 times the yearly average net earnings (excluding rebate payments) of three years preceding the purchase, subject to a maximum price of 120 and a minimum of 100 per cent. of cost price on a rupee basis.

.— The Government have given notice to the District Board of Kistna of their intention to purchase the Branch Railway on the fourth day of February 1938 and to determine the agreement for working the Branch line from the 3rd February 1938.

(viii) Power of the Government to determine contract .-- As in the case of Madras and Southern Mahratta railway (5′ 6″ gauge).

- (ix) Power of the Kistna District Board to determine agreement (x) Power of the Kistna District Board to determine contract.
- (xi) Power of the Company to determine agreement .-(xii) Power of the Company to surrender contract .- -
- (xiii) Term of agreement [if not determined under (vii)].—Not specified.
- (xiv) Term of contract [if not determined under (viii)].—As noted under Madras and Southern Mahratta railway (5' 6" gauge).

(q) Bezwada-Masulipatam railway (3' 3\sqrt{g}" gauge)-concld.

Statistics of working-

							
Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings,	Net earnings.	Percentage of net earnings on total capital outlay given in column 3.	Earnings per mile per weck.	Proportion of expenses to earnings.
·	2	3	4	5	6	7	8
1908 1909	Miles. 49•47 51•80 51•80	. Rs. 20,02,813 21,24,465 21,56,748	Rs. 2,72,333 3,29,527 3,07,417	Rs. 1,49,783 1,80,804 1,66,821	7·48 8·51 7·73	Rs. 117 122 114	45.00 45.13 45.73
1911	51.80 51.80 51.80 51.80 51.80	21,82,641 21,98,743 21,99,608 22,04,271 22,03,935	2,89,551 3,31,267 94,771 3,53,514 4,06,330	1,57,954 1,81,732 52,124 1,94,187 2,23,174	7·24 8·27 2·37 8·81 10·13	107 123 141 131 151	45·45 45·10 45·04 45·07 45·08
1915-16	51.80 51.80 51.80 51.80 51.80	22,08,193 22,15,270 22,28,919 22,46,472 22,52,834	4,18,796 3,82,717 3,71,780 3,80,477 4,79,357	2,29,699 2,09,320 2,03,920 2,09,237 2,63,416	10·40 9·45 9·15 9·31 11·69	155 142 138 141 178	45·15 45·31 45·15 45·01 45·05
1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27 1927-28 1928-29 1929-30 1930-31 1931-32 1932-33 1933-34 1934-35 1935-36 1936-37	51·80 51·80 51·80 51·80 51·80 51·80 51·80 51·80 51·80 51·80 51·80 51·80 51·80 51·80	22,55,146 22,57,377 22,71,099 22,87,503 22,96,887 23,05,597 23,30,345 23,41,823 23,63,131 23,95,819 24,21,172 24,23,461 24,23,732 24,23,732 24,74,664 25,15,853	5,70,222 6,69,397 7,98,859 8,24,848 8,75,147 8,73,120 9,60,663 10,02,756 9,58,248 9,81,290 8,80,143 7,19,168 7,36,080 8,93,212 7,00,317 8,93,469 13,04,299	3,13,622 3,68,168 4,38,963 4,53,667 4,80,291 4,79,929 5,28,150 5,51,453 5,27,036 5,39,230 4,83,169 3,95,397 4,04,844 4,91,055 3,85,174 4,91,294 7,17,206	13·91 16·31 19·33 19·83 20·91 20·80 22·70 23·62 22·51 22·82 20·17 16·33 16·71 20·20 15·89 19·85 28·51	212 249 297 300 324 323 356 370 355 363 327 267 273 331 260 332 484	45.00 45.00 45.00 45.00 45.12 15.00 45.01 45.00 45.00 45.02 45.02 45.02 45.02 45.02 45.02 45.01

(h) Hindupur (Yesvantpur-Mysore Frontier) railway (3' $3\frac{3}{8}$ " gauge)—Progress in opening—

Section of Railw	ay.		Date of opening.	Miles.	Total.	Rewards.
1			2	3	4	5
Yesvantpur to Dodballapur . Dodballapur to Mysore Frontier			15-12-92 17-9-93	*20.20		* Of this 6.25 miles. be- tween Yesvantpur and Yelahanka, are on a mixed (3.33 and 2.66)
	TOTAL	•	••	•	51 · 19	gauge.

Details of construction-

Permanent-way.—The rails on the ghât section are 50-lb. flat-footed steel, State railway type, and 414-lb. flat-footed steel on the remainder of the line. The sleepers are Mysore teak throughout Ballast.—The line is ballasted throughout with stone.

Fancing.—The line is fenced throughout.

Curves.—The sharpest curve has a radius of 660 feet.

Gradients.—The ruling gradient is 1 in 100 with a 1 in 89 gradient on the ghât section.

Agreement and contract-

Agreement, dated the 2nd December 1899, between the Government of His Highness the Maharaja of Mysore and the former Southern Mahratta Railway Company, having effect from 17th September 1893, supplementary to the provisions of the (Mysore) contract of the 31st August 1897, between the Secretary of State and the former Southern Mahratta Railway Company noted under Madras and Southern Mahratta railway (5' 6' gauge).

Contract, dated the 26th June 1908 (called the principal contract), between the Secretary of State and the Madras and Southern Mahratta Railway Company, as to the continuance of the existing agreement subject to the variations and modifications thereof as therein set forth.

Agreement, dated the 30th October 1925 (supplemental to the principal contract of the 2nd December 1899), between the Mysore Government and the Madras and Southern Mahratta Railway Company, as to the variation of the terms of the principal contract.

Deed dated the 24th day of March 1937, between the Secretary of State in Council of India and the M. & S.M Railway Co. Ltd. (Preamble 6) as to the determination of the Indentures dated the 31st day of August 1887 and all amendments and variations thereof on the 31st day of December 1937.

(h) Hindupur (Yesvantpur-Mysore Frontier) railway (3' 32" gauge)—concid.

Main provisions of agreement and contract-

- (i) Land .- Provided by the Mysore Durbar at the cost of capital.
- (ii) Government aid.—The line (which is the property of the Mysore Durbar) is maintained, stocked and worked by the Madras and Southern Mahratta Railway Company in all respects (except only as to capital expenditure which is provided by the Durbar) as part of its own undertaking.
- (iii) Terms of working.— Maintenance and working expenses are calculated at the same proportive) Distribution of profits.— Ition of the gross earnings as (excluding the cost of new minor works attributable to the Mysore State lines and debitable direct to each of those railways to which the works pertain and the hire of rolling stock when charged to worked lines) obtains on the Company's system as a whole, plus 5 per cent. of the gross earnings for the use of the Company's rolling-stock with effect from 1st July 1908, plus the cost of new minor works, in each half-year. And in addition thereto the Company is, as from the 1st July 1908, entitled to \frac{1}{20}th of the surplus of the net earnings, after payment thereout of the interest payable on any capital expenditure incurred in respect of that line after the 31st December 1907. The residue is to be paid by the Company to the Durbar.
- (v) Rates and fares.—
- (vi) Special obligations as to the conveyance of—
 (a) Mails, troops, police, high Government
 officials and Government stores. --
 - (b) Government bullion and coin.-
- The same rates as from time to time obtain on the Mudras and Southern Mahratta railway. Except when specially sanctioned by the Government, no terminal charge is to exceed 3 pies per maund leviable only at stations of origin and destination.
- (vii) Power of the Government to determine agreement.—If not determined by the Durbar or the Company sconer, vide (ix) and (xi), then the agreement terminates simultaneously with the principal contract between the Secretary of State and the Company, dated the 26th June 1903.
- (viii) Power of the Government to determine contract. -As in the case of the Madras and Southern Mahratta railway (5' 6" gauge).
- (ix) Power of the Durbar to determine agreement.-
- The Durbar may determine the agreement on the 1st day of January or 1st day of July in any year after the 31st day of December 1904 on 12 months notice. If not terminated sooner, the Agreement will terminate without prior notice, on the date on which the (Mysore) Contract may terminate.
- (x) Power of the Durbar to determine contract.-Nil.
- (xi) Power of the Company to determine agreement. -As noted under (ix).
- (xii) Power of the Company to determine contract.—As in the case of the Madras and Southern Mahratta railway (5' 6" gauge).
- (xiii) Term of agreement -As noted under (vii).
- (xiv) Term of contract.—As noted under the Madras and Southern Mahratta railway (5' 6" gauge)
 Statistics of working—

Included with the Bangalore-Harihar railway.

(i) Kolhapur State railway (3' 33" gauge)—

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.
Kolhapur to Miraj	21-4-91	29•27	29+27

Details of construction-

Permanent-way.—The permanent-way consists of 41½-lb. flat-footed steel rails on steel trough sleepers and wooden sleepers.

Ballast.—The line is ballasted throughout with sand.

Fencing.—The line is unfenced except for a very short length.

Curves.—There are no curves with a radius of less than 999 feet.

Gradient.-The ruling gradient is 1 in 100.

Agreement and contract-

Agreement, dated the 17th July 1891, between the Kolhapur Durbar and the old Southern Mahratta Railway Company, as to maintenance and working, having effect from 21st April 1891.

Contract, dated the 26th June 1908 (called the principal contract), between the Secretary of State and the Madras and Southern Mahratta Railway Company, as to the continuance of the existing agreement subject to the variations and modifications thereof as therein set forth.

(i) Kolhapur State railway (3' 3%" gauge)—concld.

Main provisions of agreement and contract-

- (i) Land .- Provided by the Kolhapur Durbar at the cost of capital.
- (ii) Government aid.—The line is the property of, and was constructed by, the Kolhapur Durbar who supply funds for any necessary additions thereto. It is maintained stocked and worked by the Madras and Southern Mahratta Railway Company.
- (iii) Terms of working.— } From the total expenses of maintaining and working the Company's (iv) Distribution of profits.— } system, including the Kolhapur State railway, as a whole, are deducted charges for new minor works and Government supervision debitable direct to each of the railways concerned, and the balance is divided between the two railways in the ratio of the gross earnings of each.

From the gross earnings of the Kolhapur State railway are then deducted the charges for new minor works and the proportion of working expenses attributable to that line as noted above, and the remainder, represents its net earnings. Subject to Final Settlement when the accounts of each half year are finally made up, 80 per cent. of the net earnings of each month shall be paid by the company to the Darbar, the balance being retained pending half yearly settlement.

- (v) Rates and fares .-
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—
 - (b) Government bullion and coin.-

The same as, for the time being, are in force on the Madras and Southern Mahratta railway.

- (vii) Power of the Government to determine agreement.—Not specified.
- (viii) Power of the Durbar to determine agreement.
 - The agreement is terminable upon 6 months notice from either party to the agreement.
 - (ix) Power of the Company to determine agreement.
 (x) Power of the Government to determine contract.
- As in the case of the Madras and Southern
 Mahratta railway (5' 6" gauge).
- (xi) Power of the Company to determine contract.-
- (xii) Power of the Durbar to determine contract.—Nil.
- (xiii) Term of agreement.—As against (viii) and (ix).
- (xiv) Term of contract.—As noted under the Madras and Southern Mahratta railway (5' 6" gauge).

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14.) --

	Year.		:	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings. 5	Percentage of net earnings on total capital outlay given in column 3	Earnings per mile per week	Proportion of expens- es to earnings.
				Miles.	Rs.	Rs.	Rs.		Rs.	
1913-14 1914-15 1916-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27 1927-28 1928-29				20·27 20·27 20·27 20·27 20·27 20·27 20·27 20·27 20·27 20·27 20·27 20·27 20·27 20·27	23,26,251 23,26,251 23,26,251 23,26,251 23,26,251 23,28,401 23,28,308 23,28,308 23,28,308 23,28,308 23,28,308 23,28,308 23,28,304 23,28,304 23,24,304 23,40,41 23,44,272 23,49,513 23,41,513	3,41,236 3,10,558 3,24,162 3,27,117 3,64,304 4,24,647 4,32,924 5,02,557 5,22,420 5,76,894 5,97,246 6,15,269 6,24,003 6,08,704 6,32,237 6,02,407	1,53,844 1,38,449 1,56,223 1,66,122 1,96,042 2,20,360 1,97,789 1,77,007 1,58,113 2,09,445 2,57,374 2,73,227 2,85,656 2,76,713 2,68,313 3,09,810	0.61 5.95 6.72 6.97 8.43 9.46 8.49 7.39 6.79 9.00 11.05 11.73 12.20 11.80 11.42	224 204 213 215 239 279 284 330 313 379 403 409 413	54·92 55·42 51·81 50·44 46·09 48·11 54·31 65·78 69·78 53·69 55·59 54·20 54·50 48·57
1929-30		•	•	29·27 29·27	23,57,899	5,37,678	2,56,846 2,24,591	10·89 9·53	352 336	52·23 56·02
1930-31 1931-32		:	:	29 27	23,57,899 23,60,047	5,10,706 4,74,072	2,24,591	0.69	330	51.74
1932-33		•	•	29.27	23,60,047	4,98,954	2,11,375	8.96	328	57.64
1933-34		•	٠	29·27 29·27	23,60,047 23,60,047	5,25,663 4,43,263	2,40,481 1,85,163	10·20 7·85	345 291	51·25 58·23
1934-35 1935-36	:	:	:	29.27	23,60,047	4,16,530	1,65,346	7.01	274	60.30
1936-37	· ·			29 • 27	23,60,047	3,67,767	1,51,802	6.43	242	58.72

(j) Sangli State railway (3' 3\sqrt{gauge} —

Progress in opening-

Section of railway.		Date of opening.	Miles . 3	Total.
Miraj Junction to Sangli	•	1-1-07	4.60	4-10

Details of construction-

Permanent-way.—The permanent-way consists of second-hand 411-lb. flat-footed steel rails on teak sleepers.

Ballast .- Ballast is chiefly sand.

Fencing.—The line is not fully fenced, but only where necessary.

Curves .-- The sharpest curve has a radius of 1,011 feet.

Gradients.—The ruling gradient is 1 in 80.

Agreements and contract-

Agreement, dated the 17th July 1907, between the Sangli Durbar and the former Southern Mahratta Railway Company, as to the construction of the Sangli State railway.

Agreement, dated the 17th July 1907, between the Sangli Durbar and the former Southern Mahratta Railway Company, as to the maintenance and working of the Sangli State railway.

Contract, dated the 26th June 1908 (called the principal contract), between the Secretary of State and the Madras and Southern Mahratta Railway Company, as to the continuance of the existing agreement subject to the variations and modifications thereof as therein set forth.

Main provisions of agreements and contract-

- (i) Land .- Provided by the Sangli Durbar free of cost.
- (ii) Government aid.—The Sangli State railway was constructed by the former Southern Mahratta Railway Company from funds supplied by the Durbar, whose property it is and who will provide all further funds that may be necessary for new works chargeable to Capital. The Branch is maintained, stocked and worked by the Company.
- From the gross earnings of the Sangli State railway are then deducted the charges for new minor works and the proportion of working expenses attributable to the Branch as noted above, and the remainder, represents its net earnings. Subject to final settlement when the accounts of each half year are finally made up, 80 per cent. of the net earnings of each month shall be paid by the company to the State, the balance being retained pending half-yearly settlement.
- (v) Rates and fares.—The Company shall charge such rates, fares and tolls as are within the schedule of Maxima and Minima rates sanctioned by Government from time to time for the Madras and Southern Mahratta railway and shall make such rules, conditions and arrangements, in respect of traffic on the railway as are now, or shall, from time to time be, in force on the Madras and Southern Mahratta railway.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—
 - (b) Government bullion and coin.-

The same as, for the time being, are in force on the Madras and Southern Mahratta railway.

- (vii) Power of the Government to determine agreement.-Not specified.
- (viii) Power of the Durbar to determine agreement.-
- (ix) Power of the Company to determine agreement .-
- (x) Term of agreement.—As against (viii) and (ix).

The agreement is terminable at the end of any year upon 6 months' notice from either party to the agreement.

2.

(1) Sangli State railway (3' 33" gauge)—concld.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14.)

	Year.			Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of not earnings on total capital outlay given in column 3.	Earnings per mile per week.	Proportion of expenses to earnings.
_										·
				Miles.	Rs.	Rs.	Rs.		Rs.	
1913-14				4.90	1,77,787	39,860	17,956	10.10	156	54.95
1914-15			•	4.90	1,77,787	38,358	16,930	9.52	151	55.86
1915-16				4.90	1,77,787	42,265	20,379	11.46	166	55 78
1916-17		-		4.90	1,77,787	44,877	22,012	12.38	176	50.95
1917 18	٠.	•	•	4.90	1,82,649	49,231	25,019	13.70	193	' 49·18
1918-19			•	4.90	1,83,098	59,885	30,549	6.68	234	48.99
1919-20		•		4.90	1,83,770	64,632	29,819	16.23	254	53.36
1920-21		•		4.90	1,83,770	74,454	25,713	13.99	292	65-46
1921-22	•	•	- 1	4.90	1,83,770	70,155	21,046	11.45	275	70.00
1022-23	-	•	•	4.90	1,94,719	90,428	32,850	16.87	355	63.67
1923-24	•	•		4.90	1,97,068	78,600	34,042	17.27	309	56.74
1924-25 1925-26			- }	4.90	1,97,068	97,565	43,259	21.95	382	55-66
1925-20		•	-	4.90	1,97,068	84,172	38,527	19:50	329	54·20 54·60
1920-27	•	•	•	4.90	1,97,068	80,276	36,513	18·50 19·43	314 352	57.58
1928-29	•	•	. 1	4.90	1,97,068 2,02,456	90,207 31,746	38,288	23.29	359	48.62
1929-30	•	•	•	4.90	2,04,194	76,385	47,143 36,574	17.91	299	
1930-31	•	•	•	4.90	2,04,194	77,753	34,096	16.70	305	
1931-32	•	•	• 1	4.90	2,04,314	80,312	38,506	18.84	315	
1932-33	•	•		4.90	2,04,314	82,723	35,338	17.30	325	57.28
1933-34	•	•	:	4.90	2,04,314	81,769	37,352	18.00	321	54.32
1934-35	•	•	: 1	4.90	2,04,314	75,980	31,332	15.34	298	58.76
1935-36	•	•	: 1	4.90	2,04,314	70,637	27,916	13.66	277	60.48
1936-37	:		: 1	4.90	2,04,314	72,795	29,767	14.57	286	59.11

(k) West of India Portuguese railway (3' 3\frac{3}{8}" gauge)-

Chairman.--Ernest E. Sawyer, Esq., M.A., M. Inst. C. E.

Secretary.—LEONARD G. BOURCHIER, Esq.

Offices.-4, Coleman Street, London, E. C. 2.

The line was constructed with the object of connecting the British and Portuguese territories and of affording the Southern Mahratta country a harbour on the West Coast. The Southern Mahratta railway took over the working of the line as from the 1st July 1902.

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.	
Mormugao Harbour to Sonaulim	•	17-1-87 3-2-98	40·94 10·1 :	
Total	•	••	•••	51.04

Details of construction-

Permanent-way.—The permanent-way consists of 60-lbs. and 62-lbs flat-footed steel rails on creosoted pine, sâl. teak and jamba sleepers.

Ballast.—The line is ballasted throughout with laterite and bluestone

Fencing.—The line is partially fenced.

Curves.—The sharpest curve is of 550 feet radius.

Gradients.--'The ruling gradient is 1 in 100 with 1 in 40 on the Ghât section.

Contracts and agreement-

Contract, dated the 18th April 1881, between the Portuguese Government and the West of India Portuguese Railway Company, as to the construction of a harbour at the Port of Mormugao and a railway from Mormugao to the Portuguese Frontier.

Contract, dated the 19th December 1892, between the Portuguese Government and the West of India Portuguese Railway Company, providing for the guarantee of interest on the Company's capital in consequence of the cessation of the annual subsidy of Rs. 4,00,000, which was formerly paid by the British to the Portuguese Government and hypothecated by the latter to the Company

(b) West of India Portuguese railway (3' 33" gauge)—contd.

Contracts and agreements-contd.

- Agreement, dated the 21st August 1902, between the former Southern Mahratta Railway Company and the West of India Portuguese Railway Company, as to the maintenance and working of the railway from Mormugao to the Portuguese Frontier and the harbour at the Port of Mormugao.
- Contract, dated the 26th June 1908 (called the principal contract), between the Secretary of State and the Madras and Southern Mahratta Railway Company, as to the continuance of the existing contracts and agreement, subject to the variations and modifications thereof as therein set forth.
- Agreement, dated the 6th February 1929, between the Portuguese Government and the West of India Portuguese Railway Company regarding the provision of moneys up to the sum of three hundred thousand pounds required for capital expenditure for developments and improvements of the Railway and Harbour constructed under the contract dated the 18th April 1881 rendered necessary by the increasing demands of traffic.

Main provisions of contracts and agreements-

- (i) Land.—Provided by the Portuguese Government free of cost to the West of India Portuguese Railway Company.
- (ii) Government aid.—Guarantee by the Portuguese Government of interest in sterling at 5 per cent. per annum on £800,000, and at 6 per cent. per annum on any additional capital. The interest is secured (a) on any annual subsidy payable by the British or the British Indian Government to the Portuguese Government, and (b) on the Abkari (excise) duties levied in Goa. Any deficiency is, however, to be made up by the Portuguese Government from other sources.
- The line, which is the property of the West of India Portuguese Railway Company, is maintained and worked by the Madras and Southern Mahratta Railway Company as part of the latter's undertaking, except as to further capital expenditure which is provided by the Portuguese Government.
- Until final and complete repayment by the Portuguese Government of the sums advanced by the West of India Portuguese Company under the Agreement dated the 6th February 1929, the latter shall be credited with, and entitled to retain out of the net revenue, interest at the rate of 6 per cent. per annum on the outstanding amount of such advances.
- Until the termination of the principal contract the Portuguese Government shall be entitled to be credited out of (but not exceeding) the balance of the net revenue of each year remaining after providing for the guaranteed interest for the year with interest at the rate of 6 per cent. per annum on all sums reimbursed by the Portuguese Government.
- (iv) Distribution of profits.— As between the Madras and Southern Mahratta and West of India first instance paid by the Madras and Southern Mahratta Railway Company. Separate half-yearly accounts are kept of the gross earnings respectively of the Madras and Southern Mahratta railway and the West of India Portuguese railway. The gross working expenses of the combined railways (excluding revenue expenditure on new minor works which is borne entirely by the railway—whether the Madras and Southern Mahratta or the West of India Portuguese—incurring it and is in either or both cases excluded from the joint working expenses, and interest payable by the Madras and Southern Mahratta Railawy Company on the capital cost of telegraph lines equipped and owned by the Government of India) are borne by the two Companies in the proportion of their respective gross earnings for each half-year.
- As to Harbour receipts and expenses, a separate account is kept of all sources of revenue at the Port of Mormugao. The amount chargeable by the Madras and Southern Mahratta Railway Company for maintenance and working is actuals, plus 10 per cent. thereon for superior supervision subject to the proviso that if in the aggregate they (without the sanction of the West of India Portuguese railway) exceed the mean of the figures which represent the relation of such expenditure to receipts during the years 1895, 1896 and 1899, any such excess is to be annulled, or reduced as much as possible by a corresponding diminution in the charge for supervision.
- If the harbour receipts of the Company in 1929 or in any subsequent year exceed the average of the three years (1926—1928), the Portuguese Government shall be entitled to be credited as a charge to revenue with the excess of such receipts above the said average up to (but not exceeding) a sum equal to fifteen per cent. of the net harbour receipts of such year.
- Note.—At the desire of the Board of the West of India Portuguese Railway the Secretary of State has agreed to 80 per cent. of the net earnings of each month being paid to the Joint Representative in India as soon as the accounts of each month are completed, the balance being retained pending the half-yearly settlement. (India Office letter No. P.W.-2962, dated the 27th December 1912.)
 - (v) Distribution of profits as between the Portuguese Government and the West of India Portuguese Railway Company.—The surplus profits in any year, after payment of the guaranteed interest for that year, are to be divided equally between the Portuguese Government and the West of India Portuguese Railway Company.
 - (vi) Rates and fares.—The maximum rates and fares to be fixed with the consent of the Portuguese Government, and not to exceed the maxima on the Great Indian Peninsula railway; they are

West of India Portuguese railway (3' 3\frac{3}{8}" gauge)—contd.

Main provisions of contracts and agreement—concld

also subject to the maxima and minima prescribed in the contracts between the Secretary of State for India and the Madras and Southern Mahratta Railway Company.

- (vii) Special obligations as to the conveyance of-
 - (a) Mails, both British and Portuguese.—To be conveyed on the West of India Portuguese railway upon the terms of the Treaty of 1878.
 - (b) Portuguese Government troops, officials, and Government stores.—To be conveyed on the West of India Portuguese railway on the same conditions as on Indian State railways.
- (viii) Power of the Portuguese Government to determine contracts.—The Portuguese Government may purchase the railway and all other works—
 - (a) at any time by giving six months' notice;
 - (b) at any time after the expiration of the first 30 years from the date of opening of the railway or any section thereof, by giving two years' notice.
 - In the first case the Portuguese Government must pay to the Company in London a sum in sterling not less than the amount actually expended by the Company on the railway and other works, with 10 per cent. added, and the value of the rolling-stock, machinery, station appliances and stores.
 - In the second case the price to be paid by the Portuguese Government is a sum in sterling equal to the amount of the value of all the shares, debentures and stock of the Company calculated according to the mean market value in London during the three years immediately preceding the expiration of the two years' notice (such sum not to be less than the amount actually expended by the Company on the railway and other works), plus the value of the rolling-stock, machinery, station appliances and stores.
 - At the expiration of the term of the contract [99 years, see (xii)], the line becomes the property of the Portuguese Government, but the rolling-stock, machinery, station appliances and stores, and any other moveable property or plant, have to be paid for at their fair value.
 - In the event of termination of principal contract otherwise than by efflux of time, the Portuguese Government shall be credited against any sums payable by it to the Company with and up to £270,000 to the extent that the aggregate of the amount of the sinking fund available for redemption of the Debenture Stock and the nominal amount (if any) of the Debenture Stock then previously redeemed shall be able to provide.
 - (ix) Power of the West of India Portuguese Railway Company to surrender contract.—The West of India Portuguese Railway Company may make over the railway and works to the Portuguese Government—
 - (a) in the event of failure on the part of the Portuguese Government to pay the guaranteed interest in full, by giving six months' notice;
 - (b) at any time after the expiration of the first 30 years from the date of opening of any section of the line without renewal of the Treaty of 1878, by giving two years' notice.
 - In the first case the West of India Portuguese Railway Company would be entitled to receive from the Portuguese Government, in sterling, the amount actually expended on the railway and works, with 10 per cent. added, and the value of the rolling-stock, machinery, station appliances and stores: in the second case, the same amount, less the additional 10 per cent. on the expenditure on the railway and works.
 - The W. I. P. Company shall in the event of termination of principal contract whether by efflux of time or otherwise, make over to the Portuguese Government all works, Rolling Stock station appliances, etc., carried out or supplied with the sum of £270,000 without calling upon the Portuguese Government to pay any further amounts on that account.
 - (x) Power of the Madras and Southern Mahratta Railway Company to determine agreement.—

 Determinable by either party at the end of two years from the 1st July 1902 (the date on which it came into force) on 6 months' notice given, reckoned either from the 30th June or the 31st December next after the delivery of such notice.
 - Upon the determination of the agreement the Madras and Southern Mahratta Railway Company to surrender to the West of India Portuguese Railway Company the railway and harbour and their equipment, etc., and to pay to the latter all money held on account of the railway.
 - (XII) Term of contract [if not determined under (ix), (x) or (xi)].—99 years from the date of opening of the line.

(k) West of India Portuguese railway (3' 38" gauge)—concld.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1937 and in Appendix 1 to the Report for 1913-14.)—

Includes the Harbour works.

	Year.			Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total outlay given in column 3.	Earnings per mile per veek.	Proportion of expens. es to earnings.
	1			2	3	4	5	6	7	8
			į	Miles.	. Rs.	Rs.	Rs.		Rs.	
1913-14				51 · 10	1,87,62,134	11,76,901	5,21,123	2.84	443	55.47
1914-15				51 · 10	1,90,86,222	8,51,382	3,47,839	1.82	321	59.14
1915-16				51.10	1,93,40,101	7,94,409	3,28,905	1.69	299	58.59
1916-17				51.10	1,94,72,673	8,24,195	2,95,456	1.51	310	64 · 15
1917-18	•	•	•	51 · 10	1,94,46,771	7,71,769	2,88,314	1.48	290	62.64
1918-19				51 · 10	1,94,38,755	10,83,005	5,17,635	2.66	407	52.20
1919-20				51.10	1,94,41,499	9,86,519	3,88,770	1.00	372	65.03
1920-21				51 · 10	1,94,46,072	9,18,988	1,57,524	0.81	346	82.85
1921-22			[51.10	1,94,39,684	10,71,851	1,94,943	j.00	404	81.80
1922-23		•	.	51 · 10	2,01,70,795	15,43,230	4,57,027	2.58	582	70.39
1923 24		•		51 · 10	2,01,74,263	15,66,684	5,99,729	2.97	587	61.71
1924-25			}	51.10	2,01,70,634	16,58,238	6,46,990	3.20	625	63.88
1925-26		•	1	51.10	2,01,72,816	18,88,269	8,05,435	3.09	712	57.34
1926-27		•	• [51.10	2,01,73,218	22,26,592	9,40,843	4.66	839	57.74
1927-28		•	• 1	51 • 10	2,01,76,595	26,28,686	11,70,756	5.80	991	55.46
1928-29	•	•	•	51.10	2,03,43,454	31,79,912	15,44,549	7.59	1,199	51.42
1929-30	•	٠		51.10	2,05,51,804	33,00,308	14,16,649	6.89	1,239	57.08
1930-31	•	•	• 1	51.10	2,11,34,674	28,91,586	11,89,343	5.62	1,088	58.87
1931-32	•	•	- 1	51.10	2,15,68,157	27,09,402	11,15,495	5.17	1,020	58.83
1932.33	•	٠	•	51.10	2,19,12,708	20,98,883	7,82,599	3.57	791	62.81
1933-34	•	•	. 1	51.04	2,20,89,697	30,41,834	13,24,530	5.99	1,146	56.45
1934 35 1935-36	•	•	. }	51.04	2,25,65,429	25,44,938	11,29,799	. 5.00	959	55.60
1936-36	•	•	.	51·04 51·04	2 26,19,058	21,11,832	8,31,316	3.67	796	60.63
1990-97		•		OT.07 (†2,26,50,728	24,42,499	10,61,552	- 4.68	920	56.54

Rs. 1,61,88,697

† Original capital up to 31st December 1901, £1,349,058-2.5 @ 1s. 8s. per rupee Expenditure by Portuguese Government on improvements of line and harbour up to 31st March 1937

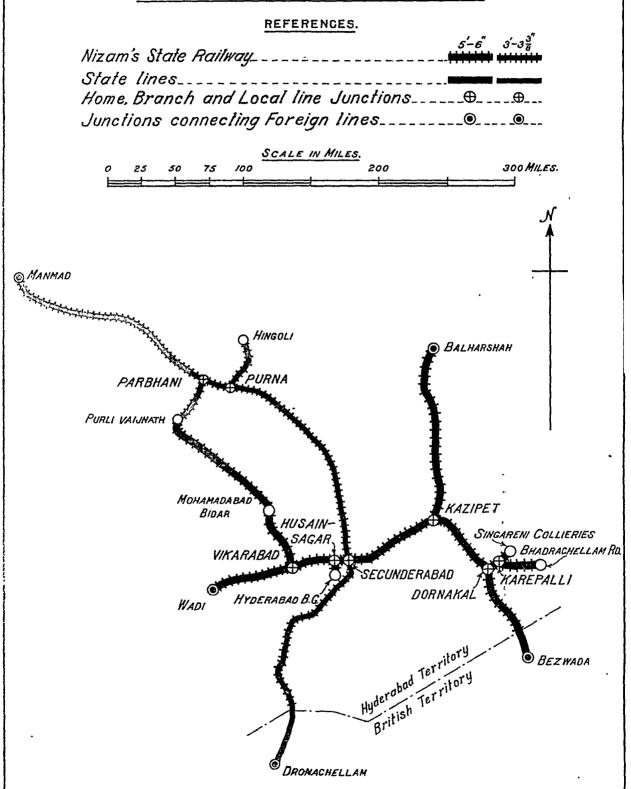
= 64,62,031

Total

= 2,26,50,728



NIZAM'S RAILWAY SYSTEM.



11. HIS EXALTED HIGHNESS THE NIZAM'S STATE RAILWAY.

President.—The Right Hon'ble Sir Akbar Hydari, (Nawab Hyder Nawaz Jung Bahadur), Kt., P.C., LL.D., D.C.L.

Chairman.—SIR JAMES BRUNYATE, K.C.S.I., C.I.E.

Managing Director.—C. W. LLOYD JONES, ESQ., C.I.E.

Secretary .- F. Adams, Esq.

Office.—274, Gresham House, Old Broad Street, London, E. C. 2.

Lines comprised in the system.

The Nizam's State Railway system is made up of-

								Under construc- tion or sanction- ed for con- struction.	Total.
							Miles.	Miles.	Miles.
(a) H. E. H. the Nizam's State Railway (5' 6" gauge) .				•			666-64		666.64
(b) Bezwada Extension Railway (5' 6" gauge)	•	•	•	•	•	•	21.47	• •	21.47
(c) H. E. H. the Nizam's State Railway (3' 3%" gauge)							623 • 48	12.04	635 • 52
(d) Dronachellam (Dhone-Kurnool) Railway (3' 3}" gauge)	•	•	•	•	•	•	36.28	••	36-28
				Тота	.	•	1,347.87	12.04	1,359 • 91

The broad gauge system of this Railway includes the section Wadi to the frontier of H. E. H. the Nizam's dominions, north-west of Bezwada, Dornakal to the Singareni Collieries, Karepalli to Bhadrachellam Road, Kazipet to Balharshah and Vikarabad to Purli Vaijnath. Up to the end of 1878 the section from Wadi to Secunderabad was worked by the Great Indian Peninsula Railway and from January 1879 to 31st December 1884 by the State Railway Agency. H. E. H. the Nizam's Guaranteed State Railways Company worked this section, together with its extension to the Frontier, from January 1885 to March 1930. The remaining sections were constructed from funds provided by H. E. H. the Nizam's Government and were also worked by H. E. H. the Nizam's Guaranteed State Railways Company.

The metre gauge system comprises the section from Secunderabad to Manmad, Purna to Hingoli, Secunderabad to the frontier of H. E. H. the Nizam's dominions and Parbhani to Puri all of which were worked by H. E. H. the Nizam's Guaranteed State Railways Company up to 31st March 1930.

The agreements between H. E. H. the Nizam's Government and the Company for working for all the sections referred to above both broad and metre gauge were determined on 1st April 1930, from which date the railways were brought under the management of the Hyderabad State.

(a) His Exalted Highness the Nizam's State Railway (5' 6" gauge).

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.	Remarks.
Broad gauge— Main Line.				
Wadi Junction to Secunderabad Secunderabad to Warangal Warangal to Dornakal Dornakal to Bonakalu Bonakalu to the British frontier Branches. Kazipot to Pedapalli Pedapalli to Ramgundam Ramgundam to Asifabad Road Asifabad Road to Balharshah Vikarabad to Mohamadabad Bidar Hussain Sagar to Hydorabad Dornakal to Singareni collicries Karepalli to Bhadrachellam Road Mohamadabad Bidar to Udgir (Nizam) Udgir (Nizam) to Purli Vaijnath	9-10-74 8-4-86 1-1-88 5-8-88 10-2-89 1-2-24 15-10-27 15-11-28 14-1-30 9-10-74 1-1-88 21-3-27 1-7-32 1-3-33	115.45 86.71 52.66 31.99 23.54 46.94 10.84 35.47 52.44 56.57 3.57 16.26 24.52 50.68 59.00	•	
Total open mileage	••	.,	666.64	

11. HIS EXALTED HIGHNESS THE NIZAM'S STATE RAILWAY SYSTEM—contd.

(a) His Exalted Highness the Nizam's State Railway (5' 6" gauge)—contd.

Details of construction-

1. Wadi to British Frontier (5' 6" gauge)-

Permanent way.—The permanent way from Wadi to British Frontier consists of 85 lbs. flat-footed steel rails on steel, Douglas Fir and other wooden sleepers.

Ballast.-The line is ballasted throughout with stone and sand.

Fencing.—The line is fenced from Wadi to Secunderabad but from Secunderabad to British Frontier only the station yards are fenced.

Curves .- The sharpest curve is of 1,300 feet radius.

Gradients.—The ruling gradient is 1 in 100 on the Secunderabad-British Frontier section and 1 in 150 on the Wadi-Secunderabad Section.

2. Dornakal to Singareni Collieries (Mineral Branch) (5' 6" gauge)-

Permanent way.—The permanent way consists of 75 lbs. B. H. rails laid on east iron pot sleepers and on wooden sleepers with C. I. Chairs.

Ballast.—The line is ballasted throughout with stone.

Fencing.—The line is not fenced but only the station yards are fenced.

Curves.—The sharpest curve is of 2,000 feet radius.

Gradients.—The ruling gradient is 1 in 100.

3. Karepalli-Kothagudium Railway (5' 6" gauge)-

Permanent way.—The permanent way consists of 75 lbs. B. H. rails laid on cast iron sleepers.

Ballast.-The line is ballasted throughout with moorum.

Fencing.—The line is not fenced but only the station yards have been fenced.

Curves.—The sharpest curve is of 2,292 feet radius.

Gradients.—The ruling gradient is 1 in 100.

4. Kazipet-Balharshah Railway (5' 6" gauge)-

Permanent way.—The permanent way consists of 85 lbs. flat-footed rails laid on steel sleepers.

Ballast.-The line is fully ballasted throughout with stone.

Fencing.-No fencing is provided.

Curves.—There are no curves with a radius of less than 1,910 feet.

Gradients.—The ruling gradient is 1 in 100.

5. Vikarabad-Bidar Railway (5' 6" gauge)-

Permanent way.—The permanent way consists of 60 lbs. steel flat-footed rails, British standard section, and Second-hand 75 lbs. F. F. Rails on steel sleepers.

Ballast.—The ballast consists of earth and moorum. Cuttings ballasted with stone. Cuttings and banks with black cotton soil are being ballasted with stone.

Fencing.—No fencing is provided.

Curves.—The sharpest curve is of 1,910 feet radius.

Gradients.—The ruling gradient is 1 in 100.

6. Vikarabad-Bidar Extension Railway (5' 6" gauge)-

Permanent way.—The permanent way consists of second-hand 75 lbs. F. F. rails and steel sleepers.

Ballast.—The ballast consists of earth and moofum.

Fencing.-No fencing is provided.

Curves.—The sharpest curve is of 1,109 feet radius.

Gradients.—The ruling gradient is 1 in 100.

11. HIS EXALTED HIGHNESS THE NIZAM'S STATE RAILWAY SYSTEM—contd.

(b) His Exalted Highness the Nizam's State Railway (3' $3\frac{3}{8}$ " gauge) —

Progress in opening-

Sections of rails	vay:				Date of opening.	Miles.	Total.	Remarks.
					2	3	4	5
METRE GAUGE-								
Main Line						}		
Manmad to Jalna	•	•	•	•	21-10-99	109 • 28		
Jalna to Sailu					7-12-99	44.79		
Sailu to Parbhani			. '		25-4-00	26.40	ļ	
Parbhani to Nander				•	9-10-00	36.98	1	
Nander to Sivangaon			•	. [23-8-00	17.61	1	
Sivangaon to Secunderabad .			•	. 1	25-4-00	150-59	ł	
Secunderabad to Timmapur .	:	•			1-2-16	27.00	ļ	
Timmapur to Shadnagar .				.	20-2-16	9.25	' (
Shadnagar to Balanagar					6-3-16	8.25		
Balanagar to Gullapalli	•				1-4-16	9.00		
Gullapalli to Jadeherla				.	20-4-16	4.75	1	
Jadeherla to Mahbubnagar .				. 1	15-5-16	11.00	1	
Mahbubnagar to Deverkudra .					15-11-16	15.25		
Deverkudra to Kurumurti .				. ĺ	1-1-17	9.50		
Kurumurti to Wanaparti Road .				. 1	15-2-17	8.25	1	
Wanaparti Road to Shriramnagar		•			1-2-22	6.83		
Shriramnagar to Gadwal	•				1-7-22	7.84		
Gadwal to Allumour Road .					20-7-25	28.12		
Allumpur Road to British frontier	•	•	•		1-9-28	3.04		
Branches Purna to Hingoli	•			Ì	155.0	*0.0		
		•	•	• [15-5-12	50.31	ĺ	
Parbhani to Gangakher	•	•	•	. }	16-10-29	21.14		
Gangekher to Purli Vaijnath .	•	•	•	.	15-12-29	18.30	623-48	
NDER CONSTRUCTION OR SANCTIONED	FOR C	ONST	o Tremin	v	{		020-40	
_	10110	OPDII		.,			į	
Jankampet to Bodhan	•	•	•		••	12.04	12.04	
OUBLE LINE—				l				
Purna junction station yard .				. 1	15-5-12	0.38		
Secunderabad to Bolarum					1-4-24	8.16		
Secunderabad to Falaknuma .					1-4-24	9.28		
	-	-	-	- 1			17.82	
				- (}	{	_, 02	1

METRE GAUGE.

Details of construction-

1. Hyderabad Godavery Valley Railway (3' 33" gauge)-

Permanent way.—The permanent way from Manmad to mile 382 consists of 50 lbs. flat-footed steel rails laid on steel sleepers except within some station limits where wooden sleepers are used. The track from mile 382 to Secunderabad is laid with 664 lbs. F. F. rails on steel sleepers. The up road of the Secunderabad-Bolarum doubling consists of 664 lbs. F. F. rails on steel sleepers.

Ballast.—The line is ballasted throughout with stone, sand and moorum.

Fencing.—The line is fenced from miles 3771 to 381 and between miles 249 and 250 and at all stations.

Curves.—The sharpest curve is of 1,433 feet radius.

Gradients.—The ruling gradient is 1 in 133.

2. Hingoli Branch Railway (3' 33" gauge)-

Permanent way.—The permanent way consists of second-hand 66½ lbs. flat-footed steel rails on steel sleepers. Ballast.—The ballast used is moorum, except in some cuttings where stone ballast has been laid.

Fencing.—The line is not fenced except in Station yards.

Curves.—The sharpest curve is of 1,910 feet radius.

Gradients.-The ruling gradient is 1 in 133.

3. Parbhani-Purli Railway (3' 33" gauge)-

Permanent way.—The permanent way consists of 414 lbs. second-hand steel flat-footed rails laid on steel, sal and half round wooden sleepers.

Ballast.—The ballast used is moorum except in cuttings where stone ballast has been laid.

Fencing.—No fencing is provided.

Curres.—The sharpest curve is of 1,637 feet radius.

Gradients.—The ruling gradient is 1 in 108.

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11. HIS EXALTED HIGHNESS THE NIZAM'S STATE RAILWAY SYSTEM—contd.

- (b) His Exalted Highness the Nizam's State Railway (3' 3\(\frac{3}{6}\)" gauge)—contd. Dtails of construction—concld.
- 4. Secunderabad-British Frontier Section of Secunderabad-Dronachellam Railway (3' 3\frac{3}{6}" gauge)—

 Permanent way.—The permanent way consists of 66\frac{1}{4} lbs. flat-footed rails laid on steel sleepers.

Ballast.—The line is ballasted fully throughout with stone.

Fencing.—The line is being fenced in the vicinity of the principal towns and most important stations

Curves.—The sharpest curve is of 1,432.5 feet radius.

Gradients.—The ruling gradient is 1 in 133.3.

(c) His Exalted Highness the Nizam's State Railway (5' 6" and 3' 33" gauges)—

Statistics of Working (excluding Bezwada Extension Railway and Dronachellam (Dhone Kurnool) Railway].

(The figures for the period prior to 1885 will be found in appendix 38 to the Railway Administration report for 1907.)

]	or 1907.)			-
Year. 1	Mileage open at end of each year.	Total capital outlay including suspense to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capita outlay given in column 3.	Earnings	Proportion of expenses to earnings.
		3	4	5	6	7	8
	Miles.	Rs.	Rs.	Rs.		Rs.	
1885 1886 1887 1888 1889 1890	. 117·10 · 205·37 · 205·37 · 305·71 · 320·20 · 320·20 · 320·20	2,47,70,823 2,80,10,490 3,27,45,307 3,54,89,073 3,59,09,620 3,76,96,721 3,04,81,752	11,13,956 13,81,077 15,48,801 17,76,076 22,57,462 25,07,268 27,76,437	6,91,524 5,52,905 7,57,467 7,69,208 10,39,590	1.97 2.40 1.69 2.13 2.14 2.76 3.19	178 143 143 118 129 145 151	56·27 49·71 64·30 57·35 65·93 58·54 54·70
1892	. 320-20 . 330-13 . 330-13 . 330-13 . 330-13 . 330-13	3,95,48,395 4,01,96,909 4,02,33,826 4,06,43,818 4,08,24,737 4,09,60,944 4,10,51,449	27,80,642 30,61,605 32,56,885 32,15,541 33,03,522 36,10,354 39,07,612	14,36,451 16,22,028 15,77,149 17,28,196 19,38,769	3·35 3·57 4·03 3·88 4·23 4·73 5·54	161 177 188 185 191 208 225	52·35 53·08 50·20 50·95 47·69 46·30 41·79
1900	. 481·36 . 715·36 . 721·55 . 721·55 . 721·55 . 721·26	6,15,00,702 6,49,43,911 6,70,89,491 6,80,64,747 6,92,20,901 6,97,51,508 7,04,01,392	41,73,582 59,75,079 60,87,960 66,94,537 65,33,382 65,44,221 72,42,283	25,37,023 32,02,811 35,71,420 36,50,425 31,24,677 35,65,401 41,78,712	4·12 5·02 5·32 5·32 4·95 5·11 5·93	164 165 161 177 173 173 192	39·19 45·39 41·34 54·53 47·58 45·52 42·30
1907	. 721·26 . 721·26 . 721·26 . 721·26 . 721·26 . 721·26 . 721·26 . 721·26	7,05,81,843 7,21,20,133 7,30,05,055 7,42,12,130 7,51,49,512 7,55,25,571 7,81,09,468	75,16,608 82,40,148 79,41,121 79,46,791 80,70,738 92,05,167 1,01,37,173	42,20,644 50,77,031 45,76,769 40,45,546 46,51,911 40,25,795 52,23,183	5·98 7·04 6·27 5·45 6·19 5·33 6·69	199 218 210 210 238 244 268	43.85 38.30 42.37 49.09 48.14 56.27 48.47
1st quarter 1913 1913-14	. 721·26 . 771·57 . 771·57 . 771·57 . 874·87 . 874·87 . 874·87	7,86,10,969 8,45,73,924 8,68,31,208 8,82,51,435 9,69,50,912 9,81,45,115 9,93,94,551	29,37,746 1,11,29,609 1,01,02,710 1,10,85,946 1,07,56,953 1,17,14,200 1,35,52,000	12,30,131 54,56,815 48,03,802 51,55,133 57,12,183 49,91,303 56,95,044	1.56 6.45 5.53 5.84 5.92 5.00 5.73	315 276 250 274 235 256 296	58·13 50·97 52·45 53·49 46·62 57·39 57·98
1920-21	. 875·32 . 875·59 . 880·92 . 888·76 . 929·95 . 940·79 . 968·91	10,11,71,503 10,30,95,483 10,64,40,912 10,79,83,106 11,58,16,427 12,12,61,696 12,30,30,138	1,56,35,628 1,60,81,792 1,67,14,500 1,89,97,276 1,79,20,128 1,85,64,869 1,92,33,983	68,31,673 85,48,765 86,09,278 1,13,68,714 89,59,954 1,10,51,398 1,01,70,036	6·76 8·22 8·17 10·53 7·74 9·11 8·23	340 351 365 409 383 378 383	56.29 46.84 47.95 40.16 50.00 40.47 47.12
1926-27 1927-28 1928-29 1929-30 1930-31 1931-32 1931-32 1933-34 1934-35	993·43 1028·90 1084·43 1180·49 1180·49 1180·49 1290·17 1290·12	13,08,13,226 13,41,22,345 13,53,03,019 14,54,43,834 13,09,97,336 13,66,04,145 14,21,12,251 14,32,40,690 14,33,18,546	1,93,74,331 1,94,16,312 2,11,13,170 2,23,67,271 2,20,84,459 2,03,52,823 1,92,30,099 1,96,84,170 2,01,80,101	1,15,28,752 1,15,32,206 1,27,50,279 1,32,85,018 1,08,75,832 90,76,009 83,15,708 83,56,171 89,63,038	8·81 8·60 9·43 9·13 8·30 6·64 5·85 5·83 6·25	382 367 374 385 358 329 301 202 290	40·49 40·61 39·57 40·61 50·75 55·41 56·76 57·49 55·63
1936-37	1290·12 1290·12	14,37,,07,640 14,40,43,859	2,00,54,762 2,15,84,183	85,69,635 1,08,42,053	5·96 7·53	297 320	57·27 49·77

11.—HIS EXALTED HIGHNESS THE NIZAM'S STATE RAILWAY SYSTEM—contd.

(d) Bezwada Extension Railway (5' 6" gauge),-

This line, which extends from the frontier of H. E. H. the Nizam's Dominions to Bezwada, was constructed for the Government of India by H. E. H. the Nizam's Guaranteed State Railways Company and was being worked as part of its own system up to 31st March 1930. Consequent on the acquisition of the Company's lines by H. E. H. the Nizam's Government on 1st April 1930, this railway is now being worked by the Hyderabad State as part of the Nizam's State Railway broad gauge system.

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.	Remarks.
1	2	3	4	5
Hyderabad frontier to Bezwada	10-2-1889	21.47	*21-47	* Of this 1.22 miles Bezwada Joint Station to the outer signal, are maintained by the Madras and Southern Mahratta Railway.

Details of construction-

Permanent way.—The line is laid with 85 lbs. flat-footed steel rails on steel sleepers.

Ballast.—The line is ballasted throughout with stone and sand.

Fencing.—The line is fenced at stations only.

Curves.—There are no curves with a radius of less than 1,900 feet.

Gradients.—The ruling gradient is 1 in 100.

Agreement -

Dated the 22nd May 1933 between the Railway Board acting on behalf of the Secretary of State and H. E. H. the Nizam's Government.

Main provisions of agreement:-

- i. Land .- Provided by the Secretary of State at the cost of Capital.
- ii. Government Aid.—The line is the property of the Government of India who provide all funds chargeable to the Capital account, and is managed, maintained, stocked and worked by H. E. H. the Nizam's State Railway.
- iii. Terms of working.
 iv. Distribution of Profits. The line is worked by H. E. H. the Nizam's State Railway for the same percentage of its gross earnings as that of the working expenses of the amalgamated undertaking, i.e., the N. S. Railway broad gauge system and the Bezwada Extension Railway to its gross earnings as published in the N. S. Railway Revenue Accounts for the same half year, plus 5 pe cent. of the gross carnings of the B. E. Railway for the use of rolling stock, together with the share of interest on joint works at Bezwada Junction. But in addition thereto, any extraordinary maintenance charges due to flood and any cause other than ordinary wear and tear shall be charged, with the approval of the Railway Board, to the B. E. Railway. Such extraordinary charges shall be excluded in working out the percentage of ordinary maintenance charges payable by the B. E. Railway. The balance is paid over to the Government of India as the net earnings of the B. E. Railway.
- v. Rates and fares.—To be the same as are from time to time obtaining on the N. S. Railway broad gauge system.
- vi. Special obligations as to the conveyance of mails, troops police department and any other department of the Government of India or H. E. H. the Nizam's Government and High officials of such governments.—On same conditions and at the same rates as may be from time to time in force on N. S. Railway broad gauge system or the State Railways of British India whichever may be the less.
- vii. Power of the Government to determine agreement viii. Power of the Nizam's Government to surrender agreement Terminable on the 31st March in any year, on six months' notice by either party to the other. Any breach of the terms of the contract may lead, ipso focto, to its determination.
 - ix. Term of agreement .- Until terminated under vii and viii.

11. HIS EXALTED HIGHNESS THE NIZAM'S STATE RAILWAY SYSTEM-concid.

(d) Bezwada Extension Railway (5' 6" gauge)-concld.

Statistic of working-

Those for the period prior to 1930-31 will be found on page 131 of the History of Indian Railways for the year ended 31st March 1930.

Note.—From the year 1936-37 the working expenses/net earnings have been arrived at after taking into account the Appropriation to Depreciation Reserve Fund instead of actual expenditure on 'Replacements and Renewals' previously accounted for.

Year.	Mileage open at end of each year. 2	Total capital outlay including suspense to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings,	Net earnings. 5	Percentage of net earnings on capital outlay given in column 3.	Interest.	Gain or loss to the State per- taining to each year.	٠, ت	Proportion of ex- ings.
	Miles.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	
1930-31	21·47 21·47 21·47 21·47 21·47 21·47 21·47	17,66,549 17,70,303 17,94,696 17,96,572 17,97,747 18,03,818 18,05,820	8,87,177 8,33,083 7,18,625 7,74,513 7,88,352 7,85,290 9,35,651	4,55,098 4,00,089 2,08,353 2,67,025 2,85,310 3,31,174 4,31,512	25.81 22.60 16.62 14.91 16.87 18.30 21.06	70,878 71,086 71,212 70,035 69,396	+3,85,053 +3,29,211 +2,27,267 +1,96,713 +2,15,275 +2,61,778 +3,66,165	792 743 612 692 704 700 836	49.60 52.03 59.48 65.41 63.81 57.83 53.55

(e) Dronachellam (Dhone Kurnool) Railway (3' 33" gauge).

This line extends from the frontier of H. E. II. the Nizam's Dominions up to Dronachellam and is owned by the Government of India. The working of the section from Kurnool to Dronachellam was transferred on 1st October 1928 from the Madras and Southern Mahratta Railway to H. E. II. the Nizam's Guaranteed State Railways Company who constructed the section from the frontier to Kurnool and continued to work the entire section up to 31st March 1930. Consequent on the acquisition of the Company's lines by H. E. H. the Nizam's Government on 1st April 1930, this railway is now being worked by the Hyderabad State as part of the Nizam's State Railway metre gauge system.

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.
Dronachellam to Kurnool Town Kurnool to British frontier	1-1-09 1-9-28	31·91 4·37	36-28

Details of construction-

Permanent way.—The permanent way on the British Frontier. Kurnool Town Section mile 151 consists of 66½ lbs. F. F. Steel rails laid on steel sleeper and that of the Kurnool Town, Dronachellam Section is laid with 60 lbs. Steel F. F. rails on Steel sleepers.

Ballast.—The line is fully ballasted throughout with stone.

Fencing.—The line is not fenced except at station yards on the Dronachellam-Kurnool Town section.

Curves.—The sharpest curve is of 1,146 feet radius.

Gradients.—The ruling gradient on the Dronachellam-Kurnool Town section is 1 in 100 and on the Kurnool Town-British Frontier section is 1 in 133·3.

Agreement-

Dated the 22nd May 1933 between the Railway Board acting on behalf of the Secretary of State and H. E. H. the Nizam's Government.

Main provisions of agreement:-

- i. Land.—Provided by the Secretary of State at the cost of capital.
- ii. Government Aid.—The line is the property of the Government of India who provide all funds chargeable to the capital account and is managed, maintained, stocked and worked by H. E. H. the Nizam's Government.
- iii Terms of working.
 iv. Distribution of profits. (a) H. E. H. the Nizam's Government shall maintain a separate account of the gross earnings of the British Section and at the end of each half year 50 per cent. of the gross earnings should be deducted towards the working expenses of the British Section which shall include the maintenance of the permanent way, the use of rolling stock and all other expenses and charges in connection with workin and maintaining the British Section and the balance after making the said deduction

11. HIS EXALTED HIGHNESS THE NIZAM'S STATE RAILWAY SYSTEM—concld.

(e) Dronachellam (Dhone Kurnool) Railway (3' 3%" gauge)-concld.

shall be paid over to the Secretary of State as the net earnings of the British Section provided that the charge for working expenses shall be increased from 50 to 55 per cent. in any year in which the gross earnings of the British Section exceed three lakhs and nineteen thousand rupees.

- (b) The cost of renewal of permanent way and bridges and also the cost of any extraordinary maintenance charges which may be caused by floods or any cause other than ordinary wear and tear shall be charged specially to the British Section in addition to and apart from the percentage charge referred to in clause (a) provided that no charge shall be made under this clause without the prior sanction of the Railway Board.
- v. Rates and fares.—To be the same as from time to time obtaining on the N.S. Railway, Hyderabad Section provided always that when the rates or routing over the British Section are governed by an agreement with the M. and S. M. Railway approved by the Railway Board the rates charged and the routing shall be in accordance with that agreement.
- vi. Special obligations as to the conveyance of mails, troops, police department or any other department of the Government of India or H. E. H. the Nizam's Government and High Officials of such Governments.—On the same conditions and at the same rates, as may be from time to time in force on the Hyderabad section or the metre gauge State Railways of British India whichever may be the less.
- vii. Power of the Government to determine Agreement.
 viii. Power of the Nizam's Government to surrender Agreement Terminable on the 31st March in any year by 12 months' previous notice in writing by either party to the other. Any breach of the terms of the contract may lead, ipso facto, to its determination.
- ix. Term of Agreement.—To remain in force for a period of 5 years from 1st April 1930 provided that if neither the Railway Board nor H. E. H. the Nizam's Government give notice to the other that it is desired that the agreement should terminate at the end of the said 5 years it shall continue in force until either party terminates it under vii and viii.

. Statistics of working-

Those for the period prior to 1930-31 will be found on page 138 of the History of Indian Railways for year ending 31st March 1930.

Note.—From the year 1936-37 the net earnings/working expenses have been arrived at after taking into account the Appropriation to Depreciation Reserve Fund instead of actual expenditure on 'Replacements and Renewals' previously accounted for.

Year. 1	Mileage open at end of each year.	Total capital outlay including suspense to end of each year, i.e., ontlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings. 5	Percentage of net earnings on total capital outlay given in column 3.	Interest.	Gain or loss to the State pertaining to each year.	H .	Proportion of ex- or peases to earn- ings.
	Miles.	Rs.	Rs.	Rs.			Rs.	Rs.	
1930-31	36·37 36·28 36·28 36·28 36·28 36·28 36·28	31,65,313 20,69,861, 26,86,657 27,18,389 27,46,143 27,50,446 27,50,910	4,01,981 4,71,915 3,76,294 4,14,979 4,30,485 3,51,636 3,60,543	-4,55,495 -3,613 2,34,739 2,37,180 2,13,752 1,82,694 1,16,403	 8.74 8.73 7.78 6.64 4.23	1,39,819 1,41,210 1,25,860 1,25,350 1,23,019 1,21,255 1,17,560	-5,95,314 -1,44,823 +1,08,879 +1,11,830 +90,733 +61,439 -1,157	212 249 199 219 228 185 191	213·31 100·77 37·62 42·85 50·35 48·04 67·71

Lines comprised in the system.—The North	Wes	tern	railw	ay s	yste	m 18 I	nau	g up	01~-		Miles.	
(a) North Western Railway (5'-6" gauge)											. *5,738-59	
(b) Amritsar Patti Railway (5'-6' Gaugo)	-										. 54.81	
(c) Hoshiarpur Doab Branch Railway (5'-6"	CRITTO	١.										
Jullandur-Mukerian Section	6B.	,-									. 45.08	
Phagwara-Rahon Section	•										. 46.03	
(d) Jammu Kashmir Railway (Indian State Se	ection)	(5'	6" ฮลบ	log							. 15.86	
(c) Jind-Panipat Railway (Indian State Section	m) /6'-	_6" c	logue								. 25.91	
(f) Khanpur-Chachran Railway (5'-6" gauge	1., (0	. 6									. 21.98	
(a) Ludhiana-Dhuri-Jakhal Railway (5'—6" g	anaa)			-	-						. 78.58	
(h) Mandra-Bhaun Railway (5'-6' gaugo)		•	-								. 40.68	
(i) Rajpura Bhatinda Railway (5—6" gaugo)	•	•	•		:	-					. 107.78	
(j) Sialkot-Narowal Railway (5'—6" gauge)	•	•	•	-		-		-			. 38.70	
(k) Sirhind Rupar Railway (5'-6' gauge)	•	•	•	Ť	•	•	Ĭ.	_			30.96	
(l) Bahawal Nagar Fort Abas Kut-Al-Imara I	Znilwe	· 15/_		foor	•	•	•	•	i	-	. 151.51	
(n) Kalka Simla Railway (2'-6" gaugo) .	entru ce	, 10	-0 gu	1160)	•	•	•	•	·	-	59.93	1
(m) Kaika Simia Kaiway (2 - o gaugo) .	•	•	•	•	•	•	•	•	•	•	• • • • • • • • • • • • • • • • • • • •	Commer-
(n) Kangra Valley Railway (2'-6" gauge)		•			•	•	•	•	•		. 102.99	cial.
(o) Trans-Indus Kalabagh Bannu Railway (2'	—6″ g	augo)					•		•	•	. 88.33	J
(p) N. W. Railway Zhob Valloy Railway (Fort	tsande	man t	o Kha	nai) (2′	3" gaug	(0)	•	•	•	. 173.84)
(q) Kohat Thal Ranway (2'-6" gauge) .	•		•	•		•		•	•	•	. 61.86	Strategic.
(r) Laki-Pezu-Tank Manzai Railway (2'-6" g	nuge)								•		. 69-15	J
(s) Jacobabad-Kashmore Railway (2'-6' gau	ge)	•	•		•	•	•	•	•	•	. 76-48	Worked.
(t) Larkana Dodapur (Sind) Light Railway (2'	—6 ″ g	augo)				•					. 53-22	J "" O' " C' " "
					•	Potal					7,088 · 28	•

^{*}Includes 137.28 miles from Nok Kundi to Zahidan and 5.00 miles from Landi Kotal to Landi Khana closed to public traffic.

Running powers— Foreign lines over home line

reign lines over home line :								
E. I. Railway—								
(i) Meerut City to Meerut Cantonment for passenger tr	ains o	nly					2.69	
(ii) Hynden Cabin to Saharanpur via Khanalampura fo	r good	ls tra	ins on	ılv.			4.42	
(iii) Hynden Cabin to Saharanpur for coaching .	•						3.85	
(iv) Ghaziabad to Delhi for passenger trains							12.38	-
G. I. P. Railway-								
(i) Kilokri to New Delhi for passenger and goods trains				_			6.01	
(ii) New Delhi Sadar to Delhi Main for passenger train-		-	1	-			1.49	

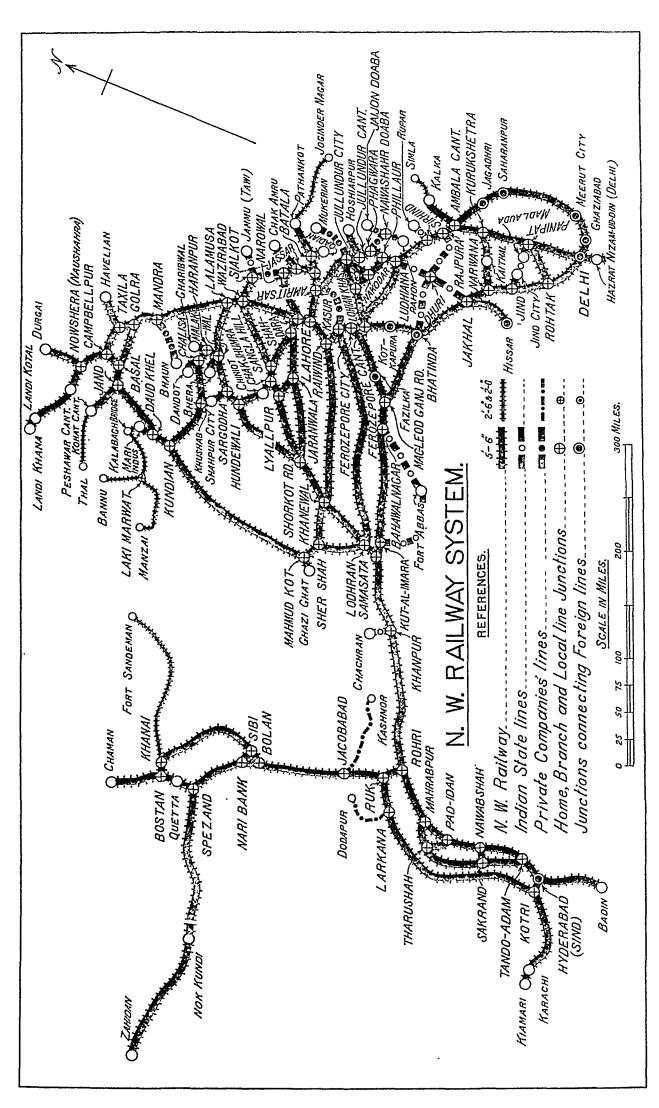
(a) North Western railway (5' 6" gauge)-

The old Sind, Punjab and Delhi Guaranteed Railway Company was taken over by the State from the 1st January 1886, and amalgamated with the Punjab Northern, the Indus Valley, the Eastern section Sind-Sagar, and the Southern section Sind-Pishin State railways, and worked as one undertaking under the name of the North Western railway.

Date of registration of the old Guaranteed Company-1855.

Progress in opening-

Sections of railway. 1			Date of opening.	Miles.	Total.	Grand total. 5	REMARKS.
COMMERCIAL SECTION (MAIN LIN	ES)						
KIAMARI-LAHORI-	•	ì		1	1		1
Kinmarı-Karachi Çity			16-6-89	3.07	Į į		l
Karachi City-Kotri			13-5-61	105.03			
Kotri-Hyderabad			25-5-00	5.29	(1
Hyderabad-Detha	••		28-3-10	6.25	1		}
Detha-Rohri	••		15-11-96	178.81	1		}
Rohri-Nara Canal Bridge	••		0.0.89	1.00	} i		}
Nara Canal Bridge-Lodhran	••		1-7-78	224.50	! i		}
Lodhran Khanewal via Chord	• • • • • • • • • • • • • • • • • • • •		1-4-09	55.66	! i		į
Khanewal-Lahore	• • •	(24-4-65	177-50	i i		1
LODHRAN-KHANEWAL LOOP via SHERS		•••	23-3-00	177-00	757 - 11		1
Lodhran-Muzaffarabad	•••	[1-7-73	47.61	10, 11		(a) Transferred from E. 1.
Muzaffarabad-Multan Cantonment	• • • • • • • • • • • • • • • • • • • •		21-8-70	6.89	}		Railway on 1-4-25.
Multan Cantonment-Khanewal			24-4-65	30.50	1		(b) Originally constructed
	••	1	24-4-00	30-50	85.00		on the metre gauge. Con-
DELHI-PISHAWAR CANTONMENT-		1			00.00		verted to B. G. on 6-10-78.
Delhi-Ghaziabad (a)		!	1.8.64	13-41	1 1		The lire was opened by
Ghaziabed-Meerut City	• • • • • • • • • • • • • • • • • • • •		18-4-67	29.24	1 1		sections on the 5'-6"
Meerut City - Ambala Cantonment	• • • • • • • • • • • • • • • • • • • •	::	1.1.69	121.68	1 1		gauge. Thus Jhelum to
Ambala Cantonment-Ludhiana	• • • • • • • • • • • • • • • • • • • •	::	12-10-69	70.22	1 1		Ratial 1st January 1980
Ludhiana-Phillaur		- ::	14-10-70	8.28	}		(15M) and Ratial to
Phillaur-Jullundur Ca stonment		:: }	1-4-70	24.12	1		Rawalpindi Ist October
Jullundur Cantonment-Beas	• • • • • • • • • • • • • • • • • • • •	- 1	15-11-69	25.33	l i		1880 (56 miles). The
Reas-Amritear	• • •	::	1-11-67	26.23	1		diversions near Domeli
Amritsar-Lahore	• • • • • • • • • • • • • • • • • • • •		10.4.62	32.40			were abolished on the
Lahore-Jhelum	• • • • • • • • • • • • • • • • • • • •		6-10-78	103.78			8th May 1882 and
Jhelum-Rawalpindi (b)	• • •	••	†	76.37	l l		the 1/50 graded through
Rawalpindi to mile 560 · 63 (between and Campbellpur Cantonment).	Lawren	cepur	1-1-81	43.90	. 1		line between Jhelum and Rawalpindi (70.50 miles
Mile 560.63 to Rumian		1	1.400	10.00	· ·		established. But in 1888.
Rumian to Attock Bridge	••	•••	1-4-99	12.50	i	j	
Attock Bridge to Khairabad	• •	•••	0	5.25]		and subsequent years the
Khairabad-Peshawar City	••		31-5-83	2.75	ļ		Section was regraded to
Peshawar City-Peshawar Cantonmer		•• {	1-5-82	40.98			1/100 by realignment
2 John at Ord-1 Commut Officonmer		- • •	1-1-83	2.65			in places. After recons-
		- 1	ſ		639.09	į	truction, the length of the
Carried	-	. }	j	}		j	section from Jhelum to
Carried	uver	•• {	••	}	1,481.20		Rawalpindi was 76.37 on the 31st March 1897.





Progress in opening—contd.

Sections of Railwa	ay.		Date of opening.	Miles.	Total.	Grand total.	REMARKS.
Brong	ht forward	•••	2	3	1,481 · 20		6
COMMERCIAL SECTION (MAI					1,131 20		
Raewind-Kasur Kasur-Ganda Singhwala Ganda Singwala-Hussainiwal		•	15-4-83 10-6-83 15-12-83	17·24 6·88 5·37			
Hussainiwala-Ferozepur City Ferozepur City-Ferozepur Ca Ferozepur Cantonment-Bhati	ntonment		8-5-87 <i>f</i> 1-10-92 1-10-88 15-6-99	2·50 1·89 53·59	87.47		
Samasatta-Bhatinda-Delui— Samasatta-Delhi Kishangunj Delhi Kishangunj-Delhi Bren			10-11-97	400·44 0·80			
Delhi Brewery Cabin-Delhi J	unction* .		1-7-12 \\ 20-12-09	1.31	402.55		*Purchased by the State on 1st January 1930.
Delin-Ambala-Kalka†	••		1-3-91	162.05	162.05		†Purchased by the State on 1st April 1926.
Ronni-Ruk— Rohri-Sukkur Sukkur-Ruk Ruk-Miles 18-58			27-3-89 1-10-78 2-8-80	2·64 15·20 0·74	18.58		
Delhi-Kilokri‡			15-11-04	7.79	7.79		‡Transferred from G. I. P.
Ghaziabad-Moradabad (in ya	rd)			0.56	0.56		Railway on 1st March 1926.
Ghaziabad-Howrah (in yard)	•			0.50	0.50		
Meerut City-E. I. Rly. Li. Khanalampura-Saharanpur	ne		::	0·58 1·90	0.58 1.90	2,163 · 18	
COMMERCIAL SECTION (BI	RANCH L	INES)—					.s
Kotri-Dadu-Ruk— Kotri-Laki			8-10-78 27-10-78 1-10-78	75·48 71·28 63·42			
Hydrerabad-Badin			15-8-04	61 · 70§	210·18 61·70		§This length was dismantled
SIND LEFT BANK FREDER RAIL Tando Adam-Nawabshah Sakrand-Tharushah			10-12-31 10-12-31	53·80 65·73			during the war and re- opened in sections on 9-1- 1922 and 13-3-1922.
Padidan-Mehrabpur		•	20-5-30	43.31	162 · 84		
Sutley Valley Extension— Lodhran-Kasur (c)			6-7-10	212-68	212.68		(c) The line was dismantled during the war and was relaid and re-opened as follows:— Kasur to Pakpattan 86.80
•							miles on 15th March 1923. Mailsi to Lodhran 40-08 miles on 18th March 1924. Pakpattan to Mailsi 85-90
]	,]	miles on 23rd November 1925.
LUDHIANA EXTENSION— Ludhiana—Ferozepur Canton Ferozepur City—McLeodganj		: ::	10-6-05 10-2-06	75-90 77-45	153.35		For Goods traffic. For passenger traffic—1st October 1905.
JULLUNDUR DOAB EXTENSION— Juliandur City—Kapurthala Kapurthala—Sultanpur Lodi Sultanpur Lodi—Lohian Kha			23-6-12¶ 26-8-12¶ 1-1-13				¶For goods traffic. For passenger traffic—1st January
Lohian Khas—Gidarpindi Gidarpindi—Makhu			10-1-14 **14-4-14	4·39 10·00			**For goods traffic. For pas-
Makhu-Ferozepur Cantonmen			11-8-13	25.86			senger traffic — 1st May 1914.
PHILLAUR-LOUIAN KHAS-			1-6-13	39.22	72·98 39·22		
JULLUNDUR CITY—NAKODAR			††30-5-14	19.82	19.82		††For goods traffic. For pas
KHANEWAL-WAZIRABAD— Khanewal-Toba Tek Singh Toba Tek Singh—Lyallpur			16-4-00 22-6-99	55·53			songer traffic—15th June 1914.
1064 1ek Singh—Lyanpur Lyallpur-Sangla Hill Sangla Hill—Hafizabad Hafizabad-Wazirabad			15-2-96 1-1-96 15-8-95	49·00 27·21 31·45 37·53			
Shahdara-Sangla Hill			10-4-07	56.21	200.72		
		-			58.21	<u> </u>	
(Carried ove	or		••	1,189.70	<u> </u>	

Progress in opening-contd.

Sections of ra	ilway.			Date of opening.	Miles. 3	Total.	Grand total. 5	Remarks.
Br	ought fo	rward				1,189.70		
COMMERCIAL SECTION (BR	ANCH I	INES)-	contd.					
	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1-11-13	50.42			
Jakhal-Hissar	••	••	••	1-11-13		50.42		
Narwana-Kurukshetra Narwana-Kaithal	••	••	••	1-2-99*	23.58			*For goods traffic. For pas- songer traffic 8th March
Kaithal-Kurukshetra	••	• •	••	1-12-10	29.76	53.32		1899.
JIND-PANIPAT— Jind Junction—Jind City Mile 28.78-Panipat	::	••	••	7-8-16 1-11-16	2·90 14·76	17.66		
Rohtak-Panipat				15-6-28	44.01			
JULLUNDUR CANTONMENT—H	Yoshiari	rur		16-6-13	22.86	44.01		
Amritsar-Pathankot-						22.86		
Amritsar-Patharkoi Amritsar-Dina Nagar Dina Nagar-Pathankot		••	::	1-1-84 8-6-84	51·01 15·48	66.52		
BATALA-QADIAN				20-12-28	12.08			
Verka-Narowal-						12.08		
Verka-Dera Baba Nanak Dera Baba Nanak-Jassar Jassar-Narowal	••	••	••	4-5-27 6-5-29 21-12-27	27.80 5.20 5.74			_
				21-12-27	26.60	38.83		
	••	•••	••]	l	26-66	}	
Shandara-Narowal	••	••	••	21-12-26	48.33	48.33		
Wazirabad-Suchetgarii— Wazirabad-Sialkot Sialkot-Suchetgarh			••	1-1-84 15-3-90	26·55 9·08	35.63		
Shorkot Road—Qila Sheik Sherkot Road—Jaranwala **Jaranwala-Qila Sheikhuj	• •	- ::	·	2-5-11 18-11-09	87·94 49·20			**The change is due to shifting junction arrangements from
Lyaldpur-Jaranwala-	••	••		3-12-27	20.75	137·14 20·75		Chichkoki Mallian to Qila Sheikhupura.
Shorkot Road—Malakwal Shorkot Road—Sargodha				14-5-06	102.50	20.75		
Sargodha-Malakwal	••	••	••	1-4-03	46.58	149-14		
Char Jhumra-Hundewali— Char Jhumra-Mile 20·50 Mile 20·50—Hundewali		••		29-1-28 10-1-29	20·50 22·31			
Sargedha-Khushab				20-3-29	28.22	42.81		
Taxila-Havelian	•	••	•••	7-11-13	31.69	28.22		,
		**	••	1-11-15		34.69		`
Moghalpura-Lahore Canto	NMENT \	Vest	••	••	2 · 19	2.19		
	GRAND'	TOTAL	••	••			2,020.96	
STRATEGIC SECTIONS— 1. BALUOHISTAN RAILWAYS (Pul: Chaman (Polan Poyts)		ines)—			,			
Ruk-Chaman (Bolan Route) Ruk-Sibi				2-5-1880	133-48			4 1701
Sibi-Quetta	••	••	••	†1-5-1882 } 20-3-1887 }	87 - 57			† These are the dates of opening on the old align-
Quetta-Bostan Bostan-Killa Abdulla	••	• •	• •	21-8-87 25-1-88	20.44			ment. Damage by flood rendered realignment
Killa Abdulla-Chaman	••	••	••	1-1-92	29.26			necessary in parts. This
Chord Past Ruk‡ Chord Past Rostan	••	••	••	18-7-25 1-1-98	0·49 0·31	310·18		was done by 15-4-1897. ‡ Line maintained, points and signals disconnected
2. N. W. F. P. RAILWAYS— Peshau ar Cantt.—Landi Kl								but in position.
Peshawar Cantt, Jamru Jamrud Landi Kotal		••	••	1-1-01 3-11-25	10.98 20.69			Ì
Landi Kotal Landi Khar	n (d)		•••	3-4-26	5.00	36.67		(d) Closed to Traffic on 15th December 1932.
Total S	trategie ((Main)	••				346-85	December 1999.
					}			1
				}	į i			

Progress in opening-contd.

Sections of railwa 1	y-			Date of opening.	Miles. 3	Total.	Grand total. 5	Reviaers.
•								
1. BALTCHISTAN RAILWAYS (I Stbi-Bostan (Harnai Route)— Sibi-Sharigh		Lines) -		20-3-87	73.78			
Sharigh-Bostan	••	••	••	21-8-87	60.47	134-25		
Spezand-Zahidan (Nushli Ra eion)—	ulicay an	d ils ext	cn-					
Spezand-Nushki Extension { Nushki Dalban Mirjaw	din-Mirj	*ava	••	15-11-05 1-2-27 1-10-20 1-10-22	83.05 114.91 189.50 52.62	440.08		* Nushki to Nok Kun (219·03 miles) remai open. From Nok Kun to Zahidan (former
								called Duzdop) closed Traffic on 10th July 193
2. N. W. F. P. Railways (Br	anch Li	nes)—						
Novel •ra-Durgai—				(
Nowshern-Takhat Bhai†	••	••	••	1-1-01	23.38†			† Converted from N. G. B. G. on 26th Septemb
Takhat Bhai-Durgai‡	••	••	••]	17-22	40.60		1921. ‡ Converted from N. G. B. G. on 30th March 192
3. Punjab Railmans (Branc	n Lines	.)				40.00	 	
Sind Sagar Line-						[}	ĺ	
Lalamusa-Kundian— Lalamusa-Bahaud Din	••		••	1-1-80	28.50			
Bahaud Din-Hariah Hariah-Mulakwal	••	••	••	1-2-80 10-4-80	10.51 5.95		1)	Converted from M. G. to B. on 10th February 1886.
Malakwal-Kundian	••	••	••	15-8-87	112-01	157-00]	
Shershah-Campbellpur— Shershah-Chenab East I		 .		1-1-89	2.53			
Chenab Fast Bank-Chen Chenab West Bank-Bha		Bank	••	1-2-00 22-1-87	2·18 120·03			
Bhakkar-Kundian Kundian-Daud Khel	••	••	••	15-8-87 15-3-92	63·25 30·34			
Daud Khel-Jand Jand-Basal	••	••	••	1-4-99 16-4-81	54·88 10·47		!	
Basal-Campbellpur	::	::	••	1 4.99	19.52	309-20		1
Malakwal-Bhera-								
Malakwal-Miani Miani-Ehera	••	••	••	10-4-80 2-2-82	8·71 9·01		1	Converted from M. G t B. G. on 15th March 188
אוומיונים וג	••	••	•	2-2-02		17.72	5	D. C. on 15th March 180
Chalisa-Dandot— Chalisa-Khewra	••		••	1-1-83§	6.90			§ The date of opening of t
				·				original 3'— 3½" gau line. Subsequently co
Khewra-Dandot'	••			1-1-83				verted to and opened the 5'—6" gauge. Khewra to Dandot (1.
,								miles) is closed to publication and treated as
						6.90		Siding.
SIND SAGAR LINE.								
Daud Khel-Mari Indus	••	••	••	15-3-92	6.16	6.16		
. Golra-Basal	••	••	••	1-4-81	47.00	47.00		
Jand Kohat-								
Jand-Khushalgarh	••	••	••	16-4-81	5.50			
Khushalgarh-Kohat ¶	••	••	••	25-5-02	32.24	37.74		Converted from 2'-6' 5'-6' gauge on 5th Jan
Mahmud-Kot-Ghazighat		••		1-4-87	10.95			ary 1908.
						10.95		
Total Strat	egic Bra	nch				,	1,207.60	

`154 12. NORTH WESTERN RAILWAY SYSTEM—contd.

Progress in opening-contd.

Sections of r	ailway.			Date of opening.	Miles.	Total.	Grand total. 5	REMARES.
COMMERCIAL SECTION-DOU	BLE LIN	E.S				1		
Between Kiamari and Laho						1		
Kiamari—Karachi City				30-8-97	3.07	1	1	
Karachi City-Karachi Ca	intonmen	ıt	• •	15.5.61	1	1		1
Karachi Cantonment-Pi			••	20-6-97		1		
Pipri-Kotri	••	••	••	3-5-98	1	1		
Gidu-Hyderabad		••		1-4-13	1	ĺ		
Hyderabad-Shahdadpur			• • • • • • • • • • • • • • • • • • • •	1-7-15		1		
Shahdad pur-Nawabshah		••	••	27-11-19		1		i i
Nawabshah-Kot Laloo	•••	••		25-2-20	1	1		
Kot Laloo-Khairo			•••	27-11-19	1	1		
Khairo-Chahi	•••	•••	••	20-5-14	3·25 6·74		-	
Chahi-Begmanji	••		••	20-1-21	1	1		
Begmanji-Janvar	•••		••	20-1-21	62 · 16		}	
Janvari-Rohri		••	••	21-6-12	4.11	l		
Rohri-Reti	•••	••			3.70			
Reti-Khanpur	••	••	••	1-6-07	70.00		}	
Khanpur-Samasatta		••	••	3-4-07	62.00			1
Samasatta-Adamwahan B		••	••	2-4-07	77.85			j
Adamwahan Bridge-Adan	•	••	••	1-4-09	10.61		1	
Adamwahan-Lodhran			••	20-10-30	2.52			
Raewind-Lahore		•••		1-4-09	6.13	F + 0 - 0 0	İ	
Between Delhi and Peshawar	Cantonne			16-7-12	24.42	548.33		
Delhi-Ghaziabad	••	••	[90.000	10.41			
Saharanpur-Kalanaur		••		20-2-02	13.41			
Kalanaur-Ambala		••		15-11-13	15-97 35-01			
Ambala-Rajpura		••		2-12-10	1			•
Rajpura-Sirhind				15-12-10	17.25			
Sirhind-Gobindgarh		••	1	10-1-11	15·75 5·00			
Gobindgarh-Doraha	••			ì			1	
Doraha-Ludhiana	••			15-12-10	17.04		}	
Ludhiana-Phagwara	••			10-1-11	14.71			
Phagwara-Jullundur Canto		••		11-6-11	23.30			
-Jullundur Cantonment- Han		••	[20-4-11	10.22		i	
Hamira-Dhilwan	• .			13-3-10	15.95			
Dhilwan-Beas	••	••		12-9-11	6.83			
Beas-Butari	••	••		28-2-14	1.99			
Butari-Jandiala	• •	••		10-12-10	6.85			
Jandiala-Amritsar	••	••		19-7-10	7.80		İ	
Amritsar-Lahore		••	"	23-3-10	11-28		j	
Lahore-Badami Bagh	••	••		15-1-06	32.40	}		
Badami Bagh-Shahdara		••		18-10-09	2.25		- 1	
Chaklal-Rawalpindi	••	••		8-1-10	2.88			
Rawa pindi-Golra	••	••		29-8-28	2 · 64			
Ž	Carried	ovat.	}	14-2-20	9:51	268.04	1	•
	Jailled	O V UK		ł	1	816.37	- 1	

Progress in opening-concld.

Sections of railway. I		Date of opening.	Miles.	Total.	Grand total. 5	Remarks.
Brought forward				816:37		
Between Raewind and Bhatinda— Ferozepore City-Ferozepore Cantonment		25-5-23	2.79	2.79		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Delhi-Kishanganj-Delhi Brewery Cabın (e)	••	∫ 1-1-12	0.80			(e) Purchased by the State
Delhi Brewery Cabin-Delhi Junction		1-7-12 20-12-09	1.24	2.04		on 1-1-1930.
Delhi Brewery Cabin-Subzimandi		1-3-91	0.78	0.78		
A. D. C. Cabin-New Delhi		1912	1.79	1.79		
Total Commercial		•••	••	·	823.77	
STRATEGIC SECTION-DOUBLE LINES-	į		!			
Between Ruk and Chaman (Bolan Route).	1	}				
Abi-i-Gum-Kolpur		1	aa =a			
Gulistan-Chaman		20-9-92	22·78 38·48	61.26		

(a) North Western Railway (5' 6" gauge)-

Details of construction-

- (i) Permanent way.—On the main line, the rails are mainly 90 lbs. F. F. (B. S. S. & R.) but 75 lbs. F. F. (B. S. S. & R.) with 84 and 85 lbs. D. H. and 88½ lbs. B. H. and 87 lbs. and 100 lbs. F. F. have also been laid.
- On the branch lines, the rails are 60, 62 and 75 lbs. B. S. S. and R. all of the F. F. type but 64, 68, 73, 75, 77½ and 85 lbs. rails of the B. H. or D. H. type have also been laid. Some of the 75 lbs. F. F. rails are of the 1887 and 1892 types
- Wooden sleepers of deodar, treated and untreated, with treated fir, Kail and Chir sleepers have been largely used but hard wood sleepers like teak, sal, Jarrah, Asna and Burmese have also been put in. In addition metal sleepers consisting of C. I. plates of various designs and steel troughs have been widely used. C. I. pots and R. C. plate sleepers are also laid in small lengths. Bearing plates are used on soft wood sleepers.
- (ii) Ballast.—The line is ballasted with broken stones, shingle or broken brick, except the sections Jullundur City to Ferozepur Cantt., Lohian Khas to Phillaur and Nakodar to Jullundur City which are sand and brick ballasted. The branch line sections opened in and after 1927 are mainly earth packed. On these, ballast has been provided for the points and crossings, approaches to bridges and level crossings, as also for the section Shahpur City to Khushab and one mile of the section Chak Jhumra to Chhini Khinchi.
- (iii) Fencing.—On the main line, the sections Karachi-Landhi Kotri to Khanpur, Rohri to Jacobabad, Ferozepur City to Ferozepur Cantt., and Delhi to Kilokri are fenced.
- The sections Delhi-Lahore (via Saharanpur) to Jamrud, Delhi-Umbala-Kalka, Lahore to Montgomery and Raewind to Bhatinda are fenced along part of their lengths.
- Of the branch lines, the section Kotri-Dadu-Ruk is fully fenced and the sections Wazirabad to Jammu, Amritsar to Pathankot, Sialkot Narowal to Chak Amru, Jhang Maghiana to Malakwal, Bhakkar to Campbellpur, Nowshera to Durgai and Rajpura to Bhatinda, along part of their lengths.

The rest is unfenced.

- (iv) Curves.—The sharpest curve on the commercial section is 819' radius and on the strategic section 455' radius.
- (v) Gradients.—On the Commercial section, the ruling gradient is 1 in 300 but there are important exceptions such as the section Umbala to Kalka which is 1 in 40, Lahore to Peshawar Cant. which is 1 in 100 and a part of the Lahore-Karachi main line which is 1 in 150. Some of the commercial branch lines are also graded steeper than 1 in 300 such as the Taxila-Havelian which is 1 in 50, the Kotri-Dadu loop which is 1 in 150, the section Amritsar to Pathankot which is 1 in 170 and the sections Ferozepur Cant. to Ludhiana, Jullundur Cant. to Hoshiarpur and Wazirabad to Suchetgarh which are 1 in 200.
- The ruling gradient on the strategic section is 1 in 100 on the main line and 1 in 83 on the branch lines. The important exceptions are 1 in 25 on the sections Sibi to Kolpur and Peshawar Cant. to Landi Kotal, 1 in 40 on the sections Gulistan to Chaman and Sibi to Bostan via Sharigh, 1 in 50 on the sections Spezand to Ahmedwal, Jand to Nak band and Chalisa to Dandot, and 1 in 70 on the Golra Basal section.

(a) North Western railway (5' 6" gauge)-concld.

Contract-

Nil.—The line is owned and worked by the State.

Rates and fares .- Certain maxima and minima have been fixed by the Government, between the limits of which the Railway Administration can vary the rates and fares quoted for goods and coaching traffic.

Stallstics of working. (Those for the periods prior to 1886 will be found in Appendix 38 to the Railway Administration Report for 1907.)-

Includes the Kohat-Thal, Nowhsera-Durgai, Trans-Indus Kalabagh-Bannu, Zhob Valley, Kangra Valley, Khyler Railway, the Delhit (Now Capital) Railway works from their dates of opening, the Kalka Simla Railway from 1907, the D. U. K. Railway from 1926-27, the Southern Punjab Railway from 1929-30 and the Amritsar-Patti-Kasur Railway from 1935-36.

The statistics for Kalka-Simla, Kangra Valley, Trans-Indus (Kalebagh-Bannu), Zhob Valley, Kohat Thal, and D. U. K. and Southern Punjab Railways are also shown separately in tables m, n, o, p, q, u to y respectively.

	Bouch	ge ge ge		1	3.6	poy.	l	I loculay charge, (3).]		da	mer- I sec-	M	ilitary tion.	Pritte	
Year	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings	Net carnings.	Percentage of net carning on total capital outlay, or capital at charge, given in column (3).	Government plus profit ments made of rebate.	Fotal income (column 5 + column 7).	Percentage of total on total capita or capital at given in column	Interest.	Annulty and sinking Fund.	Oaln or loss to the State pert ining to earh year.	Earnings per mile per week.		Estudigs per mile per week.		Earnings per mile per week.	Pro, of exp.
1	2		4	5	6	7	8	0	10	11	12	13	_14_	15	16	17	15
1886 1887 1888 1890 1890 1891 1802 1803 1804 1805 1807 1809 1900 1901 1905 1907 1907 1908 1909 1909 1911 1912	Miles. 1,850 79 2,441 73 2,442 10 2,465 78 2,442 10 2,465 78 2,457 90 2,573 23 2,552 21 2,573 23 2,552 21 2,573 23 2,552 21 2,573 23 2,552 21 2,573 23 2,552 21 2,573 23 2,552 21 2,573 23 2,575 20 2,713 91 2,713	Rs. 76,09,09,705 38,37,70,872 39,71,81,200 40,04,31,603 41,83,37,603 42,15,04,141 18,00,61,140 43,09,74,051 45,06,77,395 46,56,81,332 48,10,61,802 49,07,09,756 49,65,81,339 50,27,20,300 50,85,96,882 51,541,7,590 52,81,80,554 55,514,60,717 60,67,74,838 64,07,43,948 60,00,11,581 72,31,90,764 72,31,90,764 72,31,90,764 73,04,05,03,37 76,46,44,140	114. 2.63.60.001 2.10.03.388 2.67.79.305 2.82.05.82.05 2.82.05.82.05 2.82.05,8732 2.82.31.40.07 3.52.18.382 2.94.41.749 3.76.01.012 3.72.18.382 2.94.41.749 3.76.01.012 3.76.012	Rs. 1,10,02,830 57,77,685 83,00,598 1,02,81,741 1,02,67,001 1,02,82,741 1,02,67,001 1,02,82,25,181 1,01,46,098 1,10,88,409 1,40,78,507 1,85,74,360 1,60,60,223 1,32,19,151 1,20,35,61,74,360 1,60,60,223 1,32,19,151 1,73,70,004 2,50,09,517 3,22,02,000 2,00,62,383 2,03,40,019 1,03,63,13,20 1,03,63,13,20 1,03,38,476 2,13,00,240 2,51,73,007 3,12,03,43,10	3:32 1:51 2:45 2:45 2:22 2:23 2:23 2:23 3:67 3:20 3:67 3:67 3:67 4:52 3:67 4:52 4:53 4:53 4:55 4:55 4:55 5:60	-10,942 -17,315 -3,602 1,73,053 41,622 81,050 6,33,840 7,48,270 0,35,068 3,37,037 5,83,601 4,93,74 4,93,70	Ra. 1,19,02,839 57,77,585 83,96,598 1,02,84,741 1,02,67,040 1,21,32,521 04,60,060 07,07,643 1,23,25,11 1,64,46,903 1,18,89,409 1,40,58,935 1,85,74,360 1,60,71,905 1,32,15,589 0,73,543 2,04,80,160 2,60,80,607 3,25,14,932 2,04,80,453 2,05,74,759 3,45,09,507 2,57,56,663 3,17,17,809 0,73,543 2,17,06,77 2,57,56,663 3,17,17,809	3:51 1:51 1:51 1:2:459 2:2:255 3:47 3:20 3:50 3:50 3:50 3:50 3:50 3:50 3:50 3:5	18. 1.22.44.180 1.21.75.004 1.32.33.878 1.37.30.757 1.30.04.25 1.40.17.753 1.63.10.708 1.67.52.707 1.66.07.610 1.76.76.883 1.77.73.5623 1.74.61,023 1.75.08,032 1.76.08.31 1.77.73.242 1.80.11.12 1.80.11.12 1.80.11.12 1.80.11.12 1.80.11.12 2.17.80.10 2.17.80.83 2.17.80.11.12 1.80.11.60.500 1.80.21.676 2.07.78.083 2.17.89.497 2.13.80.11 2.13.80.11 2.13.80.11 2.13.80.11	60,53,083 61,07,520 61,24,025 61,44,025 61,44,025 61,74,460 61,69,676 62,07,501 62,07,600 62,07,600 62,07,600 63,03,000 63,03,000 63,03,000 63,03,000 64,03,63 64,03,63 64,03,63 64,03,63 64,03,63 64,03,63 64,03,63 64,03,63	Rs. — (7,15,0/2 — 1,2,0,5,516 — 1,0,0,5,43 — 1,0,0,5,43 — 1,0,0,5,4 — 1,0,0,5,4 — 1,0,0,5,4 — 1,0,0,1,4 — 1,0,0,1,4 — 1,0,0,1,4 — 1,0,0,1,4 — 1,0,0,1,4 — 1,0,0,1,4 — 1,1,0,1,4 — 1,1,0,1,4 — 1,1,0,1,4 — 1,1,0,1,4 — 1,1,0,1,4 — 1,1,0,1,4 — 1,1,0,1,4 — 1,1,0,1,4 — 1,1,0,1,4 — 1,1,0,1,4 — 1,1,0,1,4 — 1,1,0,1,4 — 1,1,1,1,4 — 1,1,1,1,4 — 1,1,1,1,4 — 1,1,1,1,4 — 1,1,1,1,4 — 1,1,1,1,1,4 — 1,1,1,1,1,4 — 1,1,1,1,1,4 — 1,1,1,1,1,4 — 1,1,1,1,1,4 — 1,1,1,1,1,4 — 1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	200 293 344 253 317 317 317 317 317 317 317 317 317 31	53.11 46.69 49.70 45.73 45.73 45.73 45.23 46.62 47.55 61.50	89 60 60 775 775 60 60 60 60 775 777 778 778 778 778 778 778 778	107-78 110-72 110-72 1122-71 1121-09 1122-71 112-19 116-14 97-77 93-76 101-07 103-55 112-42 103-61 101-07 113-47 101-07 112-58 149-09 140-70 122-51 117-39 100-10	253 274 225 255 255 255 255 274 255 275 275 275 275 275 275 275 275 275	52-43 72-73 72-73 72-73 72-73 72-73 72-73 72-73 73-73
1st qr. 0! 1913	3,814.07	79,99,81,406	2,00,25,197	50,07,041	0.62	-71,483	49,35,561	0.02	40,87,934	10,48,403	-27.93,63	559	70.80	63	130.00	402	75-06
1913-	4,011.02	83,24,56,540	8,67,13,030	3,07,40,434	4.41	7,50,707	3,74,01,201	4.20	2,54,72,615	66,15,780	+51,02,800	374	64-31	08	02.20	423	57-63
1014-	4,010-48	85,87,48,950	8,17,13,591	3,05,18,372	3.22	3,43,414	3,03,61,786	3.20	2,72,31,643	65,59,630	-30,28,687	516	59-38	111	96.27	310	62.61
1915-	4,009.33	80,38,39,993	8,41,06,745	3,05,63 793	4.17	45,324	3,61,09,117	4-18	2,75,45,605	67,03,420	+19,55,002	531	53-86	118	83.25	402	57.12
16 191(-	4,057.08	87,37,14,628	0,53.15 253	5,10,32,430	5.81	1,72,266	5,12,04,696	5.80	2,61,62,271	73,35,165	+1,71,07,260	615	44.20	131	82.74	465	45 09
1917-	3,987.72	87,17,78,646	12,20,98,589 (6,07,52,091	8*00	6,10,873	7,03,63,864	8.07	2,76,85,821	73,89,570	+3,52,83,470	205	28.13	140	76-50	530	42.87
18 1918-	4,102.25	92,34,12,995	12,40,05,784	5,79,84,201	6.58	13,75,288	5,93,59,489	6.62	2,81,88,120	08,95,590	+2,42,75,770	784	49.61	193	87-92	: 00	53.47
1919-	4,082.65	95,77,56,175	12,41,58,600	4,45,06,754	4.80	10,17,542	4,55,24,336	1.75	3,53,50,288	69,65,490	4 82,03,558	766	58.30	232	106-30	600)	63.75
1920-	4,281.78	1,01,07,25,003	13,04,70,615	8,01,96,979	2.00	5,91,864	3,07,88,843	3.10	3,55,88,364	54,59,461	-1,02,58,982	798	71.74	203	112.23	5an	76.80
1921-		1	13,01,02,187	40,58,370	0.38	10,63,989	51,20,350	0.48	3,44,88,400	73,18,817	-3,66,86,858	785	80.23	1	1	591	38*80
1922- 23	4,404-83	11,03,56,31,000	14,46,55,502	2,14,51,527	1.03	6,83,601	2,21,40,131	2.04	3,54,03,612	72,03,657	-2,06,52,868	854	78-10	167	143.50	632	85'17
1023-		1,11,53,07,657		4,06,42,396	}		4,27,18,930	3.83		70,98,710	17,68,320	012	68.15	ì	110.83	651	73.70
1924- 25	•	1,12,67,75,000	1	5,08,40,455	ì	· · · }	5,02,50,405	5.20	4,18,56,507	(a)	+1,73,03,088	1,050)	- 1	122-45	744	66.80
1025- 26		1,15,02,75,000		4,54,74,843	- 1		4,84,81,412	ł	4,31,02,354	••	+53,22,058	951	76-45	f	- 1	657	70.44
19264	1	1,25,48,91,000		4,40,18,237	†		4,62,21,154	3.60	4,58,11,635	••	-4,09,521	918	64-48	ł	122.32	037	71.75
1927- 28 1928-	,	1,83,10,48,000 1 1,84,75,00,914	1	4,67,23,629	i	1	4,90,50,982	- 1	5,03,31,082	٠٠	-12,71,100	913	70.73	1	ł	250	71.73
29 1929-	ŗ	(1,34,75,99,216 [†] (1,46,09,24,690 [†]	i	3.87,74,696	į.		4,13,86,800		5,48,08,685	••	-1,31,21,780	821				;	76-20
30		1,47,84,94,835	1	1	2.63		4,30,70,030 2,82,73,380	. 1	5,79,43,309	••	-1,48,72,079	603 1 662	1)	147.16		81 10
21 1	1		14,02,76,295		1.89		2,76,45,062		6,32,12,648	••	-3,49,39,268 -3,57,19,443	1	į	- 1	137 • 72	1	
32 (Į.	,	1	2,30,00,660	1.02	- 1	2,46,82,355		0,33,07,505 0,26,24,030	••	-3,70,42,284		1		149.00	t	
33 1953-	6.155.82	(b)	į	2,90,18,660	1.00		2,97,05,705		6,17,73,000	••	-3,17,52,474	1	1	- 1	140.01	Ì	
34 1	16	.0)	Į	8,23,31,004	2.20		3,29,84,392		6,01,27,386	••	-2,71,42,094	1	- 1	- 1	149.79	- 1	
35 1935-	- 14	(6)	15,03,06,001	4,10,08,045	2.85		4,25,50,485	l	5,01,27,396		-1,65,76,911	1	1	1	153.28		
36 1936-		め)		5,45,64,785	3.72		5,31,24,406	1	5,70,92,081	`	-28,07,583				145.62		
37																	

Revised figure.
 The decrease in net carnings in 1903 was due chiefly to extraordinary charges incurred in the repairs of flood damages, accontuated by a fall in the gross carning consequent pron the failure of the what export trade from Karachi and the diminution of traffic generally owing to famine and expensive breaches of the line caused by floods.
 Including premia raid by Government in the purchase of the line.
 The decrease was due to the dismantling of the Hyderabad-Badin section.
 The Capital Account was permanently debited with the balance of capital liability outstanding on 31st March 1924 in respect of the purchase of the railway and redemption by annutities and shiring fund on which full interest is charged in column 10.
 The amount of Sterling liabilities involved in the purchase of railways included in the figures shown against 1933-34 and 1934-35 has been converted at the rates of exchange ruling at the time when the liabilities came into being as against the statutory rate of exchange—i.e., 1s. 6d. previously adopted.

(b) Amritsar-Patti-Kasur railway (5' 6" gauge)-

Agents-Messrs. Killick, Nixon & Co., Bombay.

Date of registration of the Company.—12th April 1905.

Progress in opening-

	Section	ons of	railw	ıy.						Date of opening	Miles.	Total.
Amritsar to Tarn Taran Tarn Taran to Patti Patti to Kasur			:		:	:	:	:	:	21-9-06 30-12-06 4-4-10	15·00 12·05 27·76	
							То	TAL	-	1	• •	54.81

Details of construction-

Permanent way.—The permanent way consists of 75-lb. flat-footed British standard steel rails laid on deodar, chir, fir and kail treated sleepers with bearing plates.

Ballast.—The line is ballasted throughout with broken stone.

Fencing.—Station yards only are fenced.

Curves.—The sharpest curve is of 1,910 feet radius.

Gradients.-The ruling gradient is 1 in 500.

Agreements and Contracts

Agreement, dated the 21st March 1905 between the Secretary of State and Messrs. Killick, Nixon and Company of Bombay, as to the formation and establishment of the Amritsar-Patti Railway Company

Contract, dated the 22nd May 1905, between the Sucretary of State and the Amritsar-Patti Railway Company, as to the construction, maintenance and working of the Amritsar-Patti railway.

Agreement, dated the 17th March 1909, between the Secretary of State and the Amritsar-Patti Railway Company, as to the raising of capital and execution of contract in connection with the construction of the Patti-Kasur extension.

Agreement, dated the 7th May 1909 between the Scoretary of State and the Amritsar-Patti Railway Gempany, as to the reduction of the capital amount.

Contract, dated the 7th May 1909, between the Secretary of State and the Amritsar-Patci Railway Company, as to the construction, maintenance, management and working of the Patti-Kasur extension as an integral part of the Amritsar-Patti railway.

Railway Board's letter No. 92-991-P., dated the 26th March 1915, sanct oning an additional (nominal Debenture) capital of 10 lakhs.

Contract, dated the 28th October 1915 (supplemental to the contract of 1905 and 1909), between the Secretary of State and the Amritsar-Patti Railway Company, as to the adoption of the Government financial year for the preparation of accounts, etc.

Main provisions of agreements and contracts-

- (i) Land.—Provided by the Government free of cost to the Company, except for quarrying ballast brickfields, other kindred purposes and temporary works.
- (ii) Government aid.—The Government constructed the line (from funds supplied by the Company whose property it is), and manage, maintain, stock and work it, through the agency of the North Western railway.

By way of rebate the Government allow the Company, in respect of each year, such a sum, up to 45 per cent. of the gross earnings from traffic (excluding those derived from the carriage of stores) interchanged between the North Western railway and the Amritsar-Patti railway, as shall, together with the net earnings of the Company, make up an amount equal to an interest for the year at a rate of 5 per cent. per annum on the paid-up share capital and at $4\frac{\pi}{4}$ per cent. on the amount of debentures, as also, up to the same limit, Rupees 7,200 on account of office expenses and expenses of management and direction. They also allow all such legal expenses as may be properly incurred by the Company and approved by the Secretary of State or the Government of India and as are debitable to Revenue.

(iii) Terms of working.— } For management, maintenance, working and provision of rolling (iv) Distribution of profits.— } stock, the Government retain 45 per cent. of the gross earnings in each year of the Amritsar-Patti railway; the remainder, constituting the net earnings, is paid to the Company.

(b) Amritsar-Patti-Kasur railway (5' 6" gauge)—concld. Main provisions of agreements and contracts—concld.

But should the net earnings of the Company in any year exceed the minimum amount sufficient to pay a dividend of 5 per cent. per annum, on the paid-up share capital and 43 per cent. on the amount of debentures, such excess is to be applied towards the payment of office expenses, and expenses of management and direction [referred to under (ii)] up to a limit of Rs. 15,000 the balance being divided equally between the Government and the Company.

- (v) Rates and fares.—To be arranged between the Government and the working agency within the maximum and minimum in force on, and the classification of goods to be in conformity with the tof the North Western railway.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops police, high Government officials and Government
- To be conveyed at the same rates and under the same arrangements as apply to State railways.
- (b) Government bullion and coin, and the persons in charge thereof.—
- (vii) Power of the Government to determine contract.—The Government may, by giving twelve months previous notice of purchase, determine the contract either on the 31st December 1935 or on the 31st December in the last year of any subsequent period of 10 years, by paying to the Company in rupees 25 times the average yearly net earnings of the Company during the three years immediately preceding the date of determination, subject to a limit of 20 per cent in excess of but not less than the total capital expenditure of the Company.

Note:-The Government determined the contract on the 31st December 1935.

- (viii) Power of the Company to surrender contract.—Nil.
 - (ix) Term of contrac' [if not]determined under (vii)].—Not specified.

Statistics of working-

Note:-From 1935-36, the figures are included in the Statistic of working of the N. W. Rly. (5' 6" Gauge).

Year a	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly unde construction.	Gross carnings.	Net carnings.	Percentage of net carnings on total capital outlay given in column (3).	Govern- ment share of surplus profits,	Total income (column 5 column 7).	Percentage of total income on total capi- tal outlay in column (3).	ings	Proportion of expens s to earnings.
1	2	3	4	5	Ġ	7	8	Ð	10	11
1906 1907 1908 1909 1910 1911 1912 18t qr. of 1913 1913-14 1914-15 1915-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1922-93 1923-24 1924-25 1925-26 1925-26 1925-26 1925-27 1927-28 1928-29 1929-30 1930-31 1931-32 1932-33 1933-34	Miles. 27 · 49 27 · 49 27 · 49 27 · 49 27 · 40 27 · 60 54 · 26	Rs. 11,90,961 14,19,465 14,87,400 17,84,129 26,67,469 28,68,452 28,70,826 28,85,320 29,55,802 32,49,902 34,04,702 33,96,686 34,05,911 31,25,808 34,11,020 34,27,478 34,48,157 34,61,494 34,43,152 34,89,689 31,98,750 35,15,412 15,29,179 36,08,254 36,14,721 36,21,580 36,23,001 36,31,020 36,35,602 36,45,949	4,70,702 5,24,419 1,48,642 7,41,301 7,02,381 6,70,328 6,69,598 4,98,312 5,33,274 5,66,123 7,45,072 7,01,84,589 10,58,216 9,36,951 10,58,216 9,76,645 9,07,587 8,06,857 7,79,402 5,99,974 6,18,081 6,14,811	4,92,320 5,15,323 5,96,524 5,82,018 5,40,981 5,37,155 4,99,008 4,43,771 4,28,671	0·71 6·25 6·63 6·72 7·51 9·02 10·03 2·8 13·79 11·59 10·97 10·84 8·05 9·38 9·12 12·00 12·63 14·22 14·07 17·09 16·63 15·22 13·83 12·28 11·84 9·11 9·36 0·30 9·05	Rs. 3,726 4,852 16,957 30,922 49,275 61,317 78,965 1,19,964 1,49,118 87,722 40,982 63,029 1,12,942 1,25,917 1,45,766 1,56,951 1,97,313 1,87,332 1,67,970 1,65,817 1,55,635 1,26,444 1,18,643 69,070 74,013 73,286 69,071	Rs. 8,462 84,978 93,851 1,04,146 1,69,456 2,09,601 2,27,114 81,753 3,28,800 2,66,346 2,24,512 2,80,556 2,33,089 2,39,331 2,48,339 2,39,331 2,48,339 3,40,554 3,58,372 3,90,598 3,46,554 3,58,372 3,90,686 3,73,011 3,96,686 3,73,011 3,71,338 3,43,373 3,17,327 3,10,028 2,60,986	0·71 5·90 6·24 5·82 6·35 7·31 7·91 2·83 11·12 5·19 6·59 8·26 6·54 7·65 7·28 9·69 8·98 10·01 11·44 11·28 10·61 10·62 9·61 8·78 8·78 8·70 7·32 7·20 7·32 7·20 7·16	R ₄ . 69 113 126 152 146 167 186 210 249 239 237 189 201 264 317 332 281 375 346 321 285 267 210	45 00 40 40 40 40 40 40 40 40 40 40 40 40

(c) Hoshiarpur Doab Branch (Jullundur-Mukerian and Phagwara-Rahon) railways (5' 6" gauge)-

Managing Agents.—Gillanders Arbuthnot & Co., Calcutta.

Date of registration of the Company.—27th February 1914.

The construction of the Jullundur-Mukerian and Phagwara-Rahon railways by the Hoshiarpur Doab Branch Railways Company was authorised by the Railway Board in their letter No. \$\frac{6}{4}\frac{7}{6}\cdot R.C., dated the 13th March 1914.

c) Hoshiarpur Doab Branch (Jullundur-Mukerian and Phagwara-Rahon) railways (5' 6" gauge)—contd. Progress in opening—

	Section	ıs of	railw	ay.						Date of open- ing.	Miles.	Total.
		1		,						2	3	4
JULLUNDUR-MUKERIAN RAIL Jullundur City to Tanda Tanda Urmar to Dasuya Dasuya to Mukerian	WAY— Urmar	:	:		:	:	:	:	•	1-1-15 1-2-15 1-3-15	25.54 9.45 10.09	
TOTAL	JULLU	NDUF	e-Mu	CERLA	n Rai	LWAY	•				••	45.08
PHAGWARA-RAHON RAILWAY Muin line— Phagwara to Kariah Kariah to Rahon		:	:	•	•		:	:	:	1-4-15 27-5-15	18·53 7 95	26.48
Jaijon extension— Nawanshahr to Jaijon			•	•						3-5-17	19.65	19.55
Tor	ar. Phac	IWAF	ra-Ra	пон 1	RAII.W	'A Y				[46.03

Details of construction-

Permanent way.—The permanent-way on the two railways consists of 58½-lb. and 60-lb. flat-footed steel rails on deodar, fix and treated chir sleepers with bearing plates; and on the Jaijon extension of 75-lb. F. F. 1887 type rail also 68-lb. double and bull-headed, 64-lb. double-headed and 75-lb. I ritish Standard section and 62-lb. flat-footed rails laid on deodar, treated fir and treated chir sleepers with bearing plates.

Ballast.—Both the railways are ballasted with stone. The facing points, crossings, passenger platforms, level crossings, bridge approaches and sharper curves on the Phagwara-Rahon railway are ballasted with brick.

Fencing.—Fencing has been provided only at first class level crossings for a short distance on each side of the gates

Curves.—The sharpest curve is of 1,910 feet radius.

Gradients.—The ruling gradient on the Jullundur-Mukerian railway is 1 in 250 and on the Phagwara-Rahon railway, 1 in 400 on the main line and 1 in 100 on the Jaijon extension.

Contracts-

Dated the 21st February 1917, between the Secretary of State and the Hoshiarpur Doab Branch Railways Company, as to the construction, maintenance, management and working of the Hoshiarpur Doab Branch railways (Jullundur-Mukerian and Phagwara-Rahon railways).

Railway Board's letter No. 20-P., dated the 22nd January 1916, authorising to increase the nominal capital of the Company from Rs. 50 lakhs to Rs. 65 lakhs and sanctioning the immediate issue of a sum of Rs. 10 lakhs (increased subsequently to Rs. 12 lakhs in Railway Board's telegram No. 20-P.-16, dated the 27th January 1916) for the construction of the Jaijon extension and the grant to the Company of an additional allowance of Rs. 2,000 per annum for administration charges in respect of the extension.

Dated the 30th May 1922 (supplemental to the contract of 1917) between the Secretary of State and the Hoshiarpur Doab Branch Railways Company, as to the construction, maintenance and working of the Nawashahr to Jaijon extension.

Railway Board in their letter No. 1912-F., dated the 12th March 1931 sanctioned a cash credit of Rs. 4 lakhs to meet further Capital expenditure.

Main provisions of contract-

- (i) Land.—Land in British territory provided by Government free of cost to the Company.
- (ii) Government aid.—By way of rebate Government allow to the Company, in espect of each year such a sum, not exceeding the net earnings of the North Western railway derived from all traffic except stores for maintenance or working, interchanged between the North Western railway and the said railways, as shall, together with the net earnings of the Company, be equal to the interest for the year at a rate of 5 per cent. per annum on the share capital of the Company for the time being paid up. They also allow, subject to the conditions mentioned in clause 6, Schedule II of the agreement, Rs. 12,000 and such other actual expenses for or towards the office expenses and expenses of management, and direction of the Company as are specified in that clause, as also all such legal expenses as may be properly incurred by the Company and approved by the Scoretary of State or the Government of India and as are under the provisions of the agreement debitable to Revenue.
- (iii) Terms of working.—For management, maintenance, working and use of rolling-stock Government retain 50 per cent. of the gross earnings of these railways in each year, the remainder constituting the net earnings is paid to the Company.

Note. The interest on the unexpended capital also forms part of the net earnings of the Company.

- (c) Hoshiarpur Doab Branch (Jullundur-Mukerian and Phagwara-Rahon) railways (5' 6" gauge)—concld.

 Main provisions of contract—concld.
 - (iv) Distribution of profits.—Should the net earnings of the Company in any year exceed the minimum amount sufficient to pay a dividend of 5 per cent. per annum, such excess is to be applied towards the payment of the office expenses and expenses of management and direction of the Company stated under (ii), the balance, if any, being divided equally between the Government and the Company, provided that if the surplus profits are insufficient to meet the administration charges, the balance will be paid to the Company by the working agency out of the stipulated amount retained by the latter as working expenses.

(v) Rates and fares.—To be sanctioned by the Secretary of State within the maximum and minimum in force on, and the classification of goods to be in conformity with that of, the North Western

railway.

(vi) Special obligations as to the conveyance of-

(a) Mails, troops, police, high Government officials and Government stores.—

(b) Government bullion and coin, and the persons in charge thereof.—

To be conveyed in all respects as far as practicable in the same manner and subject to the same regulations and control by the Secretary of State as the same are conveyed on the North Western railway.

(vii) Power of the Government to determine contract.—Government may, on giving 12 months' previous notice of purchase in writing, determine the contract on the 31st March 1946 or on the 31st March in the last year of any subsequent period of 10 years by paying to the Company in rupees, 25 times the average of the yearly net earnings (excluding payments on account of rebate) during the years, immediately preceding the date of determination, subject to a limit of 20 per cent. in excess of, but not less than, the total capital expenditure of the Company.

The Government may also, by giving 12 months' previous notice of "special purchase" determine the contract at any time in the following cases, by paying in rupee currency to the Company 25 times the average of the yearly net earnings (excluding payments on account of rebate) during the 3 years preceding the date of determination or 115 per cent. of the total capital expendi-

ture of the company whichever may be the greater-

(a) when it is considered desirable to alter the gauge of the railways,

(b) when it is considered desirable to convert the railways into a line of through communication,

(c) when it is considered desirable to extend the said railways and the Company fails to raise additional capital for such extension within 6 months from date of receipt of the formal requisition from Government.

(viii) Power of the Company to surrender contract .- Nil,

(ix) Term of the contract.—From 21st February 1917 to 31st March 1946 and thereafter as noted under (vii). Statistics of working—

Year.	of ea	at end	end of ea t.e., outli lines op (st) lines or wholl	ncluding ense, to ich year, ay on (i) en and partly		ross nings.	N earn		Perce of net ings total tal or given column and	earn- on capi- utlay in ns 4	Rebate and Administra- tion charges from horth Western railway (+), or share of sur- plus profits payable to Government (-).	Total income.		Earn per per w	mile	Pro portion of expenses to earnings.
	J. M. Ry.	P. R. Ry.	J. M. Ry.	P. R. Ry.	J. M. Ry.	P. R. Ry.	J. M. Ry.	P. R. Ry.	J.M. Ry.	P.R. Ry.				J.M Ry.	PR. Ry.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1916-17 1917-18 1918-19 1910-20 1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27 1927-28 1928-29 1930-31 1931-82 1931-82 1934-35 1934-35	45.40 44.81 44.81 44.81 44.81 44.81 44.81 44.81 44.81 44.81 44.80 44.70 44.60 44.60 44.60 44.60 44.60 44.60 44.60	25.84 25.79 45.21 45.21 45.21 45.21 45.21 45.22 45.40 45.40 45.59 45.59 45.60	119.88.487 181,78.124 181,47,561 128,881,137 30,65,038 180,66,732 11,09.852 12,02,586 13,09.725 14,09.852 13,09.725 14,09.872 14,09.872 15,09.872 16,09.872 17,09.872 18,09	25,75,826 25,75,442 25,95,837 26,05,670 26,12,144 20,20,110 26,47,684 26,55,931 26,78,934 27,50,141 27,86,008 28,06,003 28,24,034 28,45,022 28,54,934 28,55,128 28,06,677 28,07,683	2,11,597 2,04,671 1,78,950 2,18,248 8,04,620 2,90,267 8,42,317 3,47,125 3,47,125 3,65,093 2,82,082 2,70,377 2,41,969 2,01,598 1,98,616 2,14,894 2,16,453 2,16,253 2,16,253	4,28,741 4,56,732 4,70,230 4,60,823 3,87,769 3,72,802 3,60,328 3,00,372 2,56,437 2,06,030 2,83,767 2,88,500	1,49,633 1,71,150 1,73,563 1,80,933 1,82,757 1,77,540 1,41,040 1,38,536 1,38,188 1,20,984 1,00,700 06,808	63,281 94,241 90,686 1,25,761 1,28,105 1,70,358 1,84,053 2,14,370 2,27,616 2,80,550 2,80,550 2,80,560 2,80,650 1,93,884 1,86,470 1,50,185 1,28,218 1,48,410 1,44,881 1,44,254	3:56 3:593 3:47 4:89 4:87 4:87 5:28 5:41 5:5	4.87 4.00 3.75 4.93 6.53 4.93 6.53 7.8.81 8.61 8.85 6.87 8.86 6.87 8.86 6.87 8.20 6.87 8.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6	+92,430 +78,795 +04,638 -17,529 -16,610 -28,804 -38,791 -44,572 -39,971 -37,243 +5,148 +10,604 +05,902 +1,07,618 +80,251 +91,038 +91,038 +91,038 +91,038 +91,038	Rs. 1,307,135,840 2,25,0451 2,94,031 2,94,031 2,94,031 3,18,076 3,50,165 3,02,038 3,14,067 3,30,120 3,35,045 6,87,181 6,87,181 4,147 3,41,147 3,41,147 3,42,369	0.07 8.03 4.113 5.22 5.28 5.84 6.12 6.11 6.10 6.10 6.47 5.47 5.47 5.20 5.20 5.22 5.23	Rs. 5 62 91 88 77 131 128 147 155 156 1521 119 103 86 83 91 90 101	Rs. 94 140 85 107 109 145 157 182 194 200 195 105 108 108 108 125 123 118	50.00 50.00

(d) Jammu and Kashmir railway (Indian State section) (5' 6" gauge)—
Progress in opening

Section of railway.	Date of opening.	Miles.	Total.
Frontier of the Kashmir State to the left bank of the Tawi river near Jammu	15-3-90	15.86	15.86

(d) Jammu and Kashmir railway (Indian State section) (5' 6" gauge)-concld.

Details of construction-

Permanent-way.—The permanent-way consists of 75-lb. flat-footed steel rails laid on deodar and T. S. wood sleepers with hearing plates.

Ballast.—The line is ballasted throughout with broken stone.

Fencing.—The line is unfenced except at Sialkot station.

Curves.—The sharpest curve is of 2,865 feet radius.

Gradients.—The ruling gradient is 1 in 150.

Agreements-

Dated the 19th April 1913, having effect from 1st June 1912, between the Government of India and the Kashmir Durbar, as to construction and working.

Corrigendum, dated 14th September 1915, between the Government of India and the Kashmir Durbar, modifying the agreement of 19th April 1913.

Main provisions of agreement-

- (i) Land.—Provided free of cost by the Durbar and the Government in their respective territories.
- (ii) Government aid.—The section was constructed (from funds supplied by the Kashmir Durbar, whose property it is), and is managed, maintained, stocked and worked by the North Western railway.
 - By way of rebate the Government allow to the Durbar a payment on traffic interchanged with the North Western railway to such extent, as, together with the share of net earnings attributable to the section, will afford a total dividend of 3½ per cent. per annum on the actual capital expenditure to end of each year, subject to the proviso that such rebate in no case exceeds the North Western railway's net earnings from traffic interchanged with the section.
- (iii) Terms of working .-
- For management, maintenance, use of rolling-stock and working, the North Western railway retains 55 50 per cent. of the gross (iv) Distribution of profits .earnings of the section, the remaining 44 50 per cent. together with rebate being credited to the
- (v) Rates and fares. To be such as are from time to time in force on the main line of the North Western railway.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.-
 - To be conveyed on the same general conditions as those in force on the main (line of the North Western railway. (b) Government bullion and coin, and the persons in
 - (c) Services to the Durbar.—As in clauses 15, 16 and 17 of the agreement.
- (vii) Power of the Government to determine agreement .-
- (viii) Power of the Durbar to surrender agreement -
- (ix) Term of agreement .-
- The agreement is terminable on six months' notice by either party to the other.

A 2

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14.)—

Year.	Mileage open at end of each year.	Total capital oultay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Rebate from North Western railway.	Total income.	Percentage of total income on total capital outlay given in column (3).	Earn- ings per mile per week	Proportion of expense to earnings.
						<u> </u>		l		
	Miles.	Rs.	R3.	Rs.		Rs.	R9.		Rs.	İ
1913-14	16.01	10,28,618	1,15,662	51,470	5.00		51,470	5.00	140	55.50
1914-15	16.01	10,50,361	1,04,032	46,294	4.41]	46,294	4.41	125	55.50
1915-16	16.01	10,52,682	1,36,203	60,611	5.76		60 611	5.76	163	55.50
1916-17	16.01	10,54,677	1,21,600	54,112	5.13		54,112	5.13	146	53.50
1917-18	16.01	10,60,116	1,11,523	49,628	4.68		49,628	4.68	134	53.50
1918 1)	16.01	10,60,095	1,26,965	56,500	5.33	••	55,500	5.33	153	53.50
1919-20	16.01	10,60,035	1,12,347	49,931	4.71		49,991	4.71	135	53.50
1920-21	16.01	10,61,759	1,59,428	70,946	6.67	· · ·	70,946	6.67	191	55.20
1921-23	16.01	10,66,189	1,62,776	72,435	6.80		72,435	6.80	196	55.50
1922-23	16.01	10,86,493	1,84,831	82,250	7.56	••	82,250	7.56	222	55.50
1923-24	16.01	10,99,877	1,80,382	80,268	7.30	••	80,268	7.30	217	53.50
1924-25	16.01	11,00,107	2,22,920	99,199	9.01	ا ۱۰۰	99,199	9.01	268 268	55 50
1925-26	16 01	11,00 013	2,23,462	99,141	9.04		99,441 93,739	9.04		55.50
1926-27	16.01	11,04,382	2,10,649	93,739	8.48	• •	89,437	8·48 8·07	253	55·50 55·50
1927-28	16.01	11,07,735	2,00,981	89,437	8.07	•••		7·88	241	55.20
1928-29	16.01	11,09,679	1,96,647	87,508	7·88 6·08	•••	87,508 67,779	6.08	236 183	55.50
1929-30	16.01	11,13,086	1,52,314	67,779	6.49	•••	73,096	6.49	197	
1930-31	16.01	11,25,279	1,64,257	73,096	5.66	••	63,788	5.66	171	55·50
1931-32	16.01	11,27,001	1,43,343	63,788	6.30	••	71,175	6.30	193	55.50
1932-33	15.86	11,29,944	1,59,944	71,175	6.23	•••	70,987	6.23	193	55·50
1933-34	15·86 15·86	11,39,834	1,59,521	70,987	4.74	••	54,180	4.74	193	55·50
1934-35 1935-36	15.86	11,44,213 11,55,633	1,21,753 1,33,199	54,180 59,274	5.13	••	59,274	5.13	160	55.50
1936-37	15.86	11,68,468	1,25,428	55,815	4.78		55,815	4.78	152	55.50
1000-07	10.00	11,00,408	1,20,428	00,010	# 10		30,010	 10	102	00.00

(e) Jind-Panipat Railway (Indian State Section) (5' 6" gauge)—

This line is the portion of the Jind-Panipat railway which lies within the limits of Jind territory; the portion lying in British territory which formed an integral part of the Delhi-Umballa-Kalka Railway has become a part of the North Western Railway (5' 6" gauge) with the purchase of the Delhi-Umballa-Kalka Railway from 1st April 1926. Its construction by the Agency of the Delhi-Umballa-Kalka Railway Company from funds supplied by the Jind Durbar was authorised by the Railway Board in their letter No. 2477-R.C., dated the 11th September 1913.

Pogreess in opening-

Section of railway.	Date of opening.	Miles.	Total.
2.45 miles from Madlauda to Jind City on the Southern Punjab railway	1-11-16	25.94	25-91

Detail of construction-

Permanent-way.—The permanent-way consists of second-hand 75-lb. double-headed and 74-lb. F. F. steel rails on deodar, T. S. wood and Denham-Olpherts' sleepers.

Ballast.—The line is ballasted with broken bricks and stones.

Fencing.—The line is fenced only round station-yards and at important road-crossings and villages.

Curves .-- The sharpest curve has a radius of 2,805 feet

Gradients -The ruling gradient is 1 in 250.

Contract-

Dated the 2nd September 1924, between the Secretary of State and the Jind Darbar, as to construction, maintenance and working of the Jind-Panipat Railway (Indian State Section).

Main provision of contract-

(i) Land .- Provided free of cost by the Durbar.

- (ii) Government aid. The Secretary of State is to maintain and work the line,
- (iii) Terms of working. through the agency of a railway company or the State for 48 per (iv) Distribution of profits. cent. of gross earnings. The net earnings of the line are divided between
- (iv) Distribution of profits. I cent. of gross earnings. The net earnings of the line are divided between the two sections of the Jind Panipat Railway in the same proportion as the capital expenditure on the whole line bears to the capital expenditure on each section.
- (v) Rates and fares.—Are such as may be agreed upon between the Secretary of State and the working agency within the maximum and minimum in force on the main line of the working agency.
- (vi) Special obligations as to the conveyance of .-
 - (a) Mails, troops, police, high Government Officials and Government Stores .-
 - (b) Government bullion and coin and persons in charge thereof.—
- (vii) Power of the Government to determine contract.— \ Either party may determine contract by
- (viii) Power of the Durbar to determine contract.— | | giving to the other party 12 months' previous notice in writing.

Statistics of working. (Those for the periods prior to 1926-27 will be found in the History of Indian Rys. corrected up to 31st March 1926.)

Year.	Mileago open at end of each year.	Total capital outlay, including suspense, to end of cach year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross	Not earnings.	Percentage of net caraings on total capital outlay given in column (3).	Rebate from North Western railway.		Percentuge of total income on total capital outlay given in column (3).	Earn- ings per mile per week.	Proportion of expenses to earnings.
1926-27 1927-28 1928-29 1929-30 1930-31 1931-32 1932-33 1933-34	25·94 25·94 25·94 25·94 25·94 25·94 26·94 26·91	17,45,780 17,67,484 17,69,986 17,60,986 17,67,064 17,67,064	1,62,246 1,56,082 1,48,010 1,34,822 95,663 92,081 1,04,150 1,15,440	R4. 88,847 84,368 81,163 76,061 70,107 49,745 48,350 64,158 60,029	5·13 4·83 4·65 4·35 3·90 2·81 2·74 3·06 3·42		Rs. 88,947 84,308 81,163 76,964 70,107 49,745 48,350 54,158 60,029	5·13 4·83 4·65 4·35 3·96 2·81 2·74 3·06 3·42	Rs. 126 120 116 110 63 71 69 77 85	48.00 48.00 48.00 48.00 48.00 48.00 48.00 48.00
1935-36 1936-37		17,56,439 17,56,439	1,08,670 1,15,803	56,508 60,218	3·21 3·42	::	56,508 60,218	3·21 3·42	80 88	

(f) Khanpur-Chachran Railway (5' 6' gauge)-

Progress in opening-

	Section	of r	ailway	·.			.,=.			Date of opening.	Miles.	Total.
		1								2	3	4
Khanpur to Chachran		•			-	•	•	•	•	2-7-11	21.98	21.98

(f) Khanpur-Chachran Railway (5' 6" gauge)-contd.

Details of construction-

Permanent way.—The permanent-way consists of 60-lb. B. S. S. flat-footed rails laid on treated soft wood and steel trough sleepers.

. Ballast.—The line is ballasted with brick and stone.

Fencing.—The line is not fenced.

Curves.—The sharpest curve is of 1,910 feet radius.

Gradients.—The ruling gradient is 1 in 500.

Agreement-

Dated the 21st August 1912 (having effect from the 1st January 1911), between the Secretary of State and the Bahawalpur Durbar, as to the construction, maintenance and working of the Khanpur-Chachran railway by the North Western railway.

Corrigendum (having effect from 1st April 1913) to the agreement of 21st August 1912, as to the adoption of the Government financial year for the preparation of accounts.

Main provisions of agreement-

- (i) Land.—To be provided free of cost by the Bahawalpur Durbar, both during and after construction.
- (ii) Government aid.—The line was constructed by the Government (from funds supplied by the Bahawalpur Durbar, whose property it is), and is managed, maintained, stocked and worked, through the agency of the North Western railway as if it were part of its system.

By way of rebate Government allow to the Durbar a sum not exceeding in any year the net earnings of the North Western railway from traffic interchanged with the Khanpur-Chachran branch railway, excluding the net earnings from carriage of railway stores, as shall, together with the net earnings of the branch, make up an amount equal to interest at 3 per cent. per annum on the actual expenditure charged in the capital account of the branch.

Note.—If, in any year, the sum of rebate and the net earnings of the branch fall below the equivalent of 3 per cent. per annum on the actual expenditure charged to the capital account of the branch, the deficit will be paid by the Government to the Durbar, subject to the provise that the total payment including the net earnings made by Government in any year should not exceed the amount that would have been payable by Government as rebate and net earnings if the old terms in the agreement of 1912 had existed. [Agent N. W. Railway No. 14—A. C. 4, dated 7th June 1928.]

(iii) Terms of working .-

For management, maintenance, use of rolling-stock and working, the North Western railway retains a sum equal to the same percentage of the gross earnings as the operating ratio of the entire commercial section of the North Western Railway to cover working expenses, plus 5 per cent. on the gross earnings to cover hire of rolling stock, the balance being paid to the Durbar.

- (iv) Distribution of profits.-
- (v) Rates and fares.—To be the same as may, from time to time, be in force on the North Western railway.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high officials and stores of both the Government and the Durbar.—
 - (b) Government and Durbar bullion and coin, and the persons in charge thereof.—

To be carried on the same general conditions and at the same rates as may for the time being be in force on the North Western Railway.

The agreement is terminable on the 1st

(vii) Power of the Government to determine agreement .-

(viii) Power of the Durbar to surrender agreement.—

January or 1st July in any year after 1935,
on six months' previous notice given by either
party to the other. The Government may also determine the agreement at any time, on six months'
notice, should either the North Western Railway or the Bahawalpur Darbar fail to observe their
respective obligations.

Upon the determination of the agreement the North-Western Railway shall give to the Bahawalpur Durbar possession of the Khanpur-Chachran Railway, together with all its belongings and moneys then payable to it, after which the Bahawalpur Durbar shall indemnify the North Western Railway against all debts and liabilities as may have been incurred and then be subsisting on behalf of the Khanpur-Chachran Railway.

(ix) Terms of contract.—From the 1st January 1911 until 1935, and thereafter as noted under (viii)

(f) Khanpur-Chachran Railway (5' 6" gauge)-concld.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 1 to the Railway Administration Report for

1010 1	,									
Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross carnings.	Net carnings.	Percentage of net earn- ings on total capi- tal outlay given in column (3).	Rebate from North- Western Railway.	l'otal income.	Percentage of total income on total capital outlay in column (3).	Earn- ings per mile per week.	Proportion of expenses to carmings.
1	2	ა		·						
	Miles.	Rs.	Rs.	Rs.		Re.	Ra.	1	Ra.	1
1913-14 .	22.02	14.00,387	36,375	18.437	1.31	17,037	36,374	2.60	32	60.00
1914-15	22.02	14,00,328	36,616	18,257	1.30	24,179	42,430	3.03	32	20.00
1915-16	22.02	13,09,337	32,815	16,407	1 - 17	37,794	51,201	3.87	29	50.00
1916-17 .	22.02	14,00,003	39,720	19,865	1.42	22,134	41,099	3.00	35	20.00
1917-18 .	22.02	14,00,003	33,260	16,630	1 • 19	25,370	42,000	3.00	29	20.00
1918-19	22.02	14,00,003	27,914	13,967	0.00	20,357	40,314	2.88	24	50.00
1919 20 . :	22.02	14,44,061	31,208	17,101	1.21	21,396	41,500	2.05	30	50.00
1920-21 .	22.02	14,03,812	43,183	20,591	1.63	16,670	38,261	2.72	38	50.00
1921-22	22.02	14,03,812	40,422	20,211	1-41	21,903	32,114	3.00	35	60.00
1922-23	21.98		48,301	21,152	1.71	9,301	33,453	2.37	42	50.00
1023-24 .	21.08	14,13,645	39.182	19,591	1.30	22,801	12,392	3.00	31	20.00
1924-25 .	21.98	14,16,338	40,023	20,011	1.11	22,139	42,450	3.00	35	50.00
1925-26 . }	21.9	11,16,338	40,148	20,073	1 · 12	22,116	42,489	3.00	35	50.00
1926-27 .	21.08	14,19,421	42,002	21,451	1.21	21,085	42,536	3.00	38	20.00
1027-28	21.08	14,24,546	51,268	27,134	1.00	15,526	42,660	3.00	47	50.00
1928-29 .	21.08	14,19,887	15,222	12,015	0.00	20,002	42,817	3.00	40	71.44
1929-30 .	21.08	14,29,895	40 348	7,852	0.65	35,015	42,597	3.00	35	75.73
1930-31	21.08	14,33,761	46,273	9,136	0.64	33,811	42,917	3.00	40	78.15
1931-32 .	21.08	14,33,677	26,329	3,610	0.25	39,381	43,021	3.00	23	81.06
1932-33 .	21.08	14,33,677	22,017	4,416	0.31	23,697	28,113	1.06	19	80.22
1933-31 .	21.98	14,36,057	22,833	4,056	0.23	35.436	39,492	2.75	20	81-41
1931-35 .	21.98	14.36,057	26,616	6.115	0.43	36,940	43,055	3.00	23	79.05
1935-36 .	21.98	14,36,057	38,518	9,614	0.67	33,468	43,082	3.00	31	76.69
1936-37 .	21.98	14,36,057	45,439	15,470	1.08	27,603	43,082	3.00	40	70.87
	•		Į.	1	1	Ç	1	•		ł

(q) Ludhiana-Dhuri-Jakhal Railway (5' 6" gauge)-

Progress in opening-

Sec	ion of r	ailwa	у.						Uate of opening.	Miles. 3	Total.
Ludhiana to Jakhal viá Dhuri		•	•	•	•	•	•	•	10 4-01	78-59	78.59

Details of construction -

Permanent-way.—The permanent-way consists of 74-lb. flat-footed steel rails laid on deodar, Sal, treated chir and Indian Fir sleepers with bearing plates.

Ballast.—The line is ballasted throughout with brick, stone and kunkur.

Fencing.—Only station yards and about 100 feet on each side of level crossings are fenced.

Curves.—The sharpest curve is of 1,364 feet radius.

Gradients.—The ruling gradient is 1 in 400.

Agreement-

Dated the 6th September 1899, between the Secretary of State and the Jind and Maler Kotla Durbars, as to the construction, maintenance and working.

Railway Board's letter No. 756-R.A., dated the 28th November 1912, sanctioning the adoption of Government financial year for the preparation of accounts.

Main provisions of agreement-

- (i) Land.—Provided free of cost by the Government in the case of British territory and by the Durbar concerned in the case of Indian State's territory up to the date of the agreement of 1899; thereafter all land provided by the Jind and Maler Kotla Durbars is debited to capital.
- (ii) Government aid.—The Government constructed the line (from funds supplied in the ratio of 4ths and 5th, respectively, by the Jind and Maler Kotla Durbars, whose property it is), and manage, maintain, stock and work it, through the agency of the North Western Railway, as part of its system.
- (iii) Terms of working.—

 For management, maintenance, use of rolling-stock and working the North Western Railway retains 52 per cent. of the gross earnings
- (iv) Distribution of profits.—) (prior to the 1st January 1913 the charge was made at 55 per cent. of the gross earnings, vide Railway Board's letter No. 192-R. T., dated the 29th January 1913), and the balance is paid to the Jind and Maler Kotla Durbars to be divided between them in the ratio of \$\frac{4}{2}\text{ths}\$ to the former and \$\frac{1}{2}\text{th}\$ to the latter.

(g) Ludhiana-Dhuri-Jakhal Railway (5' 6" gauge)—concld.

Main provisions of agreement-concld.

- (v) Rates and fares.—To be the same as may, from time to time, be in force on the North Western railway.
- (∀i) Special obligations as to the conveyance of—
 - (a) Mails, troops, police, high officials and stores, both of the Government and the Durbars.-
 - (b) Bullion and coin of Government and the Durbars, and the persons in charge thereof.

To be carried on the same general conditions and at the same rates as may for the time being be in force on the North Western Railway.

(vii) Power of the Government to determine agreement.

(viii) Power of the Durbars to surrender agreement.

Power of the Durbars to surrender agreement.—

Serm of contract.—

Term of contract.—

The Government may also determine the agreement on the 1st January or 1st July in any year, by giving six months' previous notice to the other. The Government may also determine the (ix) Term of contract. contract at any time on six months' notice in writing should either the North Western Railway or the Durbars fail to observe their respective obligations. Upon the determination of the agreement the North Western Railway will give to the Jind and Maler Kotla Durbars possession of the railway, all its belongings and moneys then payable to them, after which the Durbars will indemnify the North Western Railway against all debts and liabilities as may have been incurred, and then be subsisting on behalf of the Ludhiana-Dhuri-Jakhal Railway.

(Those for the periods prior to 1913-11 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14.)-

	Year 1	·.		Mileage open at end of cach year.	Total capital outlay including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings 5	Percentage o' net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
				Miles.			Rs.		Rs.	
1913-14				78·65	Rs. 42,19,576	Rs. 8,92,734	4,34,531	10.30	218	51.33
1914-15	•	:		78.65	42,19,576	7,49,351	3,59,690	8.49	183	52.00
1915-16	•	•	•	78.65	42,53,978	9,08,985	4,36,313	10.26	221	52.00
1916-17	•	•	•	78.65	42,88,185	8,58,406	4,12,035	9.61	209	52.(0
1917-18	:	•	·	78 65	43,17,455	7,62,036	3,65,778	8.47	186	52.00
1918-19	·	·	·	78.65	43,60,986	8,25,974	3 96,467	9.09	202	52.00
1919-20		-		78.65	43,76,042	9,73,022	4.67.050	10.67	238	52.00
1920-21				78.65	43,66,841	11,02,153	5,29,034	12.11	267	52.00
1921-22				78.65	44.14,069	10,91,513	5,23,292	11.85	269	52.00
1922-23				78.65	44,51,817	12,75,668	6,12,321	13.75	312	52.00
1923-24		•		78 • 65	45,17,438	12,49,455	5,99,738	13 · 28	306	52.00
1924-25				78.65	46.39.973	13,99,663	6,71,841	14.48	342	52.00
1925-26				78.65	46,71,275	13,91,277	6,67,813	14.29	340	52.00
1926-27				78-65	47,61,430	14,49,497	6,95,759	14.61	354	52.00
1927-28				78•65	47,66,380	14,80,171	7,10,482	14.90	362	52.00
1928-29		•	•	79-08	48,03,475	13,65,672	6,55,523	13.65	332	52.00
1929-30		•	•	79.08	48,27,336	14,91,198	7,15,775	14.83	362	52.00
1930-31	•	•	•	79.08	48,87,249	14,78,422	7,09,643	14.52	354	52.00
1931-32	•	•	•	79.59	49,02,786	11,21,848	5,38,487	10.98	270	52.00
1932-33	•	•		78.50	49,10,782	9,56,854	4,59,290	9.35	234	52.00
1933-34	•	•		78.58	49,49,138	9,34,037	4,48,338	9.06	228	52.00
1934-35				78.58	49,51,599	9,93,044	4,76,661	9.63	242	52.00
1935-36		•		78.58		9,85,342	4,72,964	9.54	242	52.00
1936-37	•	•		78.58	49,70,738	11,11,522	5,33,531	10.73	271	52.00

(h) Mandra-Bhaun Railway (5' 6" gauge)—

Agents.-Messrs. Killick, Nixon & Co., Bombay.

Date of registration of the Company.—13th November 1913.

The construction of this line by the North Western Railway for the Mandra-Bhaun Railway Company, was sanctioned under Railway Board's Notification No. 355, dated the 3rd December 1913.

Progress in opening-

	Section	ons of	Date of opening.	Miles.	Total,							
Mandra to Dhudial Dhudial to Chak Naurang Chak Naurang to Chakwal Chakwal to Bhaun	· .	•	:	•	•	:	:	•	:	1-5-15 1-6-15 1-9-15 15-1-16	27·25 4·25 7·86 7·32	46.6

(h) Mandra-Bhaun Railway (5' 6" gauge)-contd.

Details of construction-

Permanent way.—The permanent way consists of second-hand 60-lb., 62-lb. and 75-lb. flat-footed steel rails laid on second-hand steel trough, deodar, Jarrah, Chir and Treated Fir sleepers.

Ballast.—The line is ballasted with stone.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 955 feet radius.

Gradients.—The ruling gradient is 1 in 100 compensated.

Contract-

Dated the 15th October 1914, between the Secretary of State and the Mandra-Bhaun Railway Company, as to the construction, maintenance, management and working of the Mandra-Bhaun Railway.

Main provisions of contract-

- (i) Land.—Provided by the Government free of cost to the Company.
- (ii) Government aid.—The line was constructed by the Government (from funds supplied by the Mandra Bhaun Railway Company whose property it is), and is managed, maintained, stocked and worked through the agency of the North Western Railway as if it were part of its system.

By way of rebate the Government allow to the Company, in respect of each year, such a sum not exceeding the net earnings of the North Western Railway derived from all traffic (except stores) interchanged between the North Western Railway and the said railway as shall, together with the net earnings of the Company, be equal to the interest for the year at a rate of 5 per cent. per annum on the share capital of the Company for the time being paid up. They also allow, subject to the conditions mentioned in clause 7, Schedule II, of the agreement, Rs. 7,200 and such other actual expenses, for or towards the office expenses, the expenses of management and direction of the Company, as are specified in that clause, as also all such legal expenses as may be properly incurred by the Company and approved by the Secretary of State or the Government of India and as are, under the provision of the agreement, debitable to revenue.

(iii) Terms of working.— } For management, maintenance, working and use of rolling-stock
 (iv) Distribution of profits.— } the Government retain 50 per cent. of the gross earnings in each year of the Mandra-Bhaun Railway; the remainder, constituting the net earnings, is paid to the Company.

NOTE.—The interest on the unexpended capital also forms part of the net earnings of the Company.

But should the net earnings of the Company in any year exceed the minimum amount sufficient to pay a dividend of 5 per cent. per annum, such excess is to be applied towards the payment of office expenses and expenses of management and direction of the Company for the year referred to under (ii), the balance, if any, being divided equally between the Government and the Company. Provided that if the surplus profits are insufficient to meet the administration charges, the balance will be paid to the Company by the working agency out of the stipulated amount retained by the latter as working expenses.

- (v) Rates and fares.—To be sanctioned by the Secretary of State within the maximum and minimum in force on, and the classification of goods to be in conformity with that of, the North Western Railway.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—

To be conveyed in all respects as far as practicable in the same manner and subject to the same regulations and control by the Secretary of State as the same are conveyed over the North Western Railway.

- (b) Government bullion and coin, and the persons in North Western Railway. charge thereof.—
- (vii) Power of the Government to determine contract.—The Government may, by giving 12 months' previous notice in writing of purchase, determine the contract either on the 31st day of March 1947 or on the 31st day of March of the last year of any subsequent period of 10 years, by paying to the Company in rupees 25 times the average of the yearly net earnings (excluding payments on account of rebate) during the 3 years immediately preceding the date of determination, subject to a limit of 20 per cent. in excess of, but not less than the total capital expenditure of the Company.

The Government may also, by giving 12 months' previous notice of special purchase, determine the contract at any time in the following cases:—

(a) when it is considered desirable to alter the gauge of the railway;

(h) Mandra-Bhaun Railway (5' 6" gauge)-concld.

main provisions of contract-contd.

- (b) when it is considered desirable to convert the railway into a line of through communication, and
- (c) when it is considered desirable to extend the railway and the Company fails to raise additional capital for such extension within 6 months from receipt of the formal requisition from the Government.

If the contract be determined 'by notice of special purchase' the Government will pay to the Company in rupees 25 times the average of the yearly net earnings (excluding payments on account of rebate) during the 3 years preceding the date of determination or 115 per cent. of the total capital expenditure, whichever may be the greater.

- (viii) Power of the Company to surrender contract.-Nil.
- (ix) Term of contract.—From 15th October 1914 to 31st March 1947 and thereafter as noted under (vii). Statistics of working—

Year.	Mil-age open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (fi) lines partly or wholly under construction.	Gross carnings,	Net carnings	Percentage of net earnings on total capital outlay given in column (3).	Rebate and Administration charges from North- Western Railway (+), or share of surplus profits pavable to Gov- ernment ().	Total income (column 5 + or — column 7).	Percentage of total income on total capital outlay given in column (3).	Farnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8	9	10	11
1915-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1921-23 1922-23 1923-24 1925-26 1926-27 1927-28 1928-29 1928-29 1928-29 1930-31 1931-32 1932-33 1933-34 1931-35 1936-37	Miles. 46-38 46-38 46-38 46-38 46-38 46-38 46-38 46-38 46-38 46-38 46-38 46-68 46-68 46-68	Rs. 21,35,280 23,54,347 28,96,775 21,55,234 23,93,266 23,93,266 23,93,265 24,05,801 24 05,656 24,08,505 24,10,017 24,71,246 24,75,834 25,00,274 26,30,690 26,35,656 26,91,308 26,89,850 27,59,304	Rs. 20 484 1,74,214 1.71,894 1,50,196 1,47,981 2,68,522 2,64,063 2,51,207 2,57,628 2,25,502 2 21,367 1,90,726 1,68,984 1,92,224 1,91,911 1,80,218 1,1846 2,08,295	R9, 10,242 87,107 85,947 73,990 1,09,028 1,20,355 1,28,771 1,34,261 1,32,031 1,27,103 1,24,849 1,12,796 1,10,678 95,363 81,492 96,112 96,955 90,109 05,922 1,04,147	0 · 48 3 · 65 3 · 58 3 · 90 4 · 55 5 · 38 5 · 59 5 · 48 5 · 48 5 · 48 5 · 48 5 · 48 5 · 48 5 · 48 5 · 35 5 · 48 5 · 35 5	Rs. +31,162 +60,224 +58,371 +59,910 +24,877 +12,392 +8,681 +3,726 +6,193 +12,175 +9,416 +12,053 +22,053 +22,053 +24,863 +42,863 +51,077 +50,293 +55,161 +52,630 +44,473	Rs. 10,242 1,18,269 1,46,171 1,33,468 1,33,905 1,32,747 1,37,452 1,37,987 1,38,224 1,39,278 1,38,453 1,34,819 1,37,181 1,38,226 1,35,569 1,45,889 1,46,248 1,48,270 1,48,552 1,48,620	0·42 4·96 6·10 6·19 5·63 5·63 5·74 5·74 5·74 5·74 5·53 5·55 5·54 5·53 5·55 5·53	Rs. 8 72 71 62 61 90 107 111 109 105 107 104 93 91 78 69 79 74 78 86	50 · 00 50 · 00

(i) Rajpura-Bhatinda Railway (5' 6" gauge)-

Progress in opening-

			Secti	Date of opening.	Miles.	Total.							
Rajpura to Patiald . Patiala to Bhatinda .	•	•	•	•			:	:	:	•	1-11-84 13-10-89	16·00 91·78	107•78

Details of construction-

Permanent way.—The line from Rajpura to Patiala is laid with 75 fb F.F., S.S. steel 75-lb. B. S. S. and 75 lb. 'R' rails on deodar and treated chir sleepers, and from Patiala to Bhatinda with 75-lb. flat-footed steel rails on deodar, treated chir and fir sleepers

Ballast.—The line is ballasted throughout with brick and stone.

Fencing.—The line is fenced between Rajpura and Patiala at station yards, and 100 feet on each side of level-crossing between Patiala and Bhatinda.

Curves.—The sharpest curve is of 1,155 feet radius.

Gradients.—The ruling gradient is 1 in 400 with 1 in 250 on two long approaches at miles 30 and 31.

(i) Rajpura-Bhatinda Railway (5' 6" gauge)—concld

Agreement-

Dated the 30th January 1893, between the Secretary of State and the Patiala Durbar, as to management maintenance and working of the Rajpura-Bhatinda Railway.

high provisions of agreement-

- (1) Land.—Land for original construction was provided free of cost by Government in British territory and by the Patiala Durbar in their territory; the cost of that provided by the Durbar after 13th October 1889 (the date on which the agreement came into force) is debited to the capital account.
- (i) Government aid.—The line, which is the property of the Patiala Durbar, is managed, maintained. stocked and worked by the Government through the agency of the North Western Railway as part. of its system from the 13th October 889.
- For management, maintenance, use of rolling-stock and working the (iii) Terms of work ng.-(iv) Distribution of profits.— North Western Railway retains 52 per cent. of the gross earnings. Prior to the 1st January 1904 the charge was made at 55 per cent. of the gross earnings, vide Government ot India, Public Works Department, No. \$\frac{2}{81}\frac{1}{8}\cdot R.T., dated the 5th October 1903 to the address of the (Manuger, Nor h Western Railway) and the balance is paid to the Patiala Durbar.
- (v) Rates and farcs.—To be the same as may, from time to time, be in force on the North Western Railway.
- (vi) Special obligations as to the conveyance of—
 - (a) Mails, troops, police, high officials and stores both of the Government and of the Durbar.
 - coin, and the persons in charge thereof.-

To be carried on the same general conditions and at the same rates as may for the time being (b) Government and Durbar bullion and | be in force on the North Western Railway.

- (vii) Power of the Government to determine agreement.
- (viii) Power of the Durbar to surrender agreement.—

The agreement is terminable on the 1st Janu-(ix) Term of agreement.-I ary or the 1st July in any year on six months previous notice in writing being given by either party to the agreement to the other: The Government may also determine the contract at any time on six months' notice in writing, should either the North Western Railway, or the Patiala Durbar, fail to observe their respective obligations. Upon the determination of the agreement the North Western Railway will give to the Patiala Durbar possession of the railway, all its belongings and moneys then payable to it after which the Patiala Durbar will indemnify the North Western Railway against all debts and liabilities as may have been incurred and then be subsisting on behalf of the Rajpura-Bhatinda Railway.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14.)-

Y	Zear.			Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net carnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of ex penses to earnings.
	1			2	3	4	5	6	7	8
				Miles.	R9.	Rs.	Rs.		Rs.	
1013-14 1014-16 1015-16 1016-17 1017-18 1018-19 1019-20 1020-21 1021-22 1022-23 1023-24 1024-25 1025-26 1025-26 1025-26 1025-26 1028-29 1028-29 1029-30				108 · 04 108 · 04 108 · 04 108 · 04 108 · 04 108 · 04 108 · 04 108 · 04 108 · 04 108 · 04 108 · 56 108 · 56 108 · 56 108 · 57 108 · 57 108 · 57	71,54,898 72,49,445 72,75,107 73,11,085 75,78,443 74,37,192 76,61,018 76,66,191 76,74,188 76,97,560 77,05,273 77,16,374 77,38,483 77,50,270 78,03,925 78,14,252	19,79,514 13,42,862 16,73,791 18,09,610 21,63,806 27,70,169 19,55,062 17,98,888 16,55,086 19,89,986 26,29,022 25,67,807 22,53,460 23,02,187 24,37,200 23,62,972	9,50,167 6,44,574 8,03,419 8,68,613 10,38,627 13,20,682 9,38,430 8,63,466 7,94,412 9,55,193 12,61,931 12,32,547 10,81,601 11,05,049 11,69,856 11,34,227	13·28 8·89 11·04 11·88 13·70 17·88 12·24 12·56 10·35 12·41 16·38 15·79 13·98 14·26 14·90 14·51	352 239 296 321 385 493 347 320 295 364 469 457 390 408 432 418	52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00
1930-31 1931-32 1932-33	:	:	:	108·57 107·78	78,81 848 79,03,759 79,38,050	20,28,604 19,53,809 18,16,187	9,73,730 9,37,829 8,71,770	12·35 11·86 10·98	358 347 322	52.00 52.00 52.00
1933-34 1934-35 1935-36 1936-37	•	•	•	107·78 107·78 107·78 107·78 107·78	79,52,409 79,63,581	18,59,966 16,65,642 15,79,552 19,09,503 18,99,183	8,92,784 7,99,508 7,58,185 9,16,561 9,11,608	11.25 10.06 9.53 11.51 11.41	331 296 291 339 338	52 00 52 00 52 00 52 00 52 00

(j) Sialkot-Narowal Railway (5' 6" gauge)-

Date of registration of the Company.—21st July 1914.

Agents.-Messrs. Killick, Nixon & Co., Bombay.

The construction of this line by the North Western Railway for the Sialkot-Narowal Railway Company was sanctioned under Railway Board's Notification No. 19, dated the 26th January 1915.

Progress in opening-

5	Sectio	ns of	Date of opening.	Miles.	Total.			
		1	 <u>-</u>	 	 	 2	3	4
Sialkot to Kila Sobha Singh	•	•	٠.			10-11-15	27 - 17	
Kila Sobha Singh to Narowal			•		•	10-1-16	11.53	35•70

Details of construction-

Permanent-way.—The permanent-way consists of new 60 lb. B. S. S., 62 and 75-lb. flat-footed steel rails laid on deodar, T. S. Wood and chir sleepers with bearing plates.

Ballast.—The line is ballasted with shingle with a bottom layer of brick ballast.

Fencing.—The line is unfenced.

Curves .- The sharpest curve is of 2,865 feet radius.

Gradients.—The ruling gradient is 1 in 250.

Contract-

Dated the 15th February 1917, between the Secretary of State for India and the Sialkot-Narowal Railway Company, as to construction, maintenance, management and working of the Sialkot-Narowal Railway.

Railway Board's letter No. 74-P. 16, dated the 15th January 1917, sanctioning the raising of an additional capital of Rs. 2; lakbs.

Main provisions of contract-

- (i) Land.—Land in British territory provided by Government free of cost to the Company.
- (ii) Government aid.—The line was constructed by the Government (from funds supplied by the Sialkot Narowal Railway Company whose property it is) and is managed, maintained, stocked and worked by Government through the agency of the North Western Railway as if it were a part of its system.

By way of rebate Government allow to the Company in respect of each year, such a sum not exceeding the net earnings of the North Western Railway derived from all traffic, except stores for maintenance or working, interchanged between the North Western Railway and the said railway, as shall, together with the net earnings of the Company, be equal to the interest for the year at a rate of 5 per cent. per annum on the share capital of the Company for the time being paid up. They also allow, subject to the conditions mentioned in clause 7, Schedule II, of the agreement, Rs. 7,200, and such other actual expenses for or towards the office expenses and expenses of management and direction of the Company as are specified in that clause; as also all such legal expenses as may be properly incurred by the Company and approved by the Secretary of State or the Government of India and as are, under the provisions of the contract, debitable to Revenue.

Note.—The amount of interest on unexpended capital also forms part of its net earnings of the Company.

Should the net earnings of the Company in any year exceed the minimum amount, sufficient to pay a dividend of 5 per cent. per annum, such excess is to be applied towards the payment of the office expenses and expenses of management and direction of the Company stated under (ii), the balance, if any, being divided equally between the Government and the Company. Provided that if the surplus profits are insufficient to meet the Administration charges the balance will be paid to the Company by the working agency out of the stipulated amount retained by the latter as working expenses.

(iv) Rates and fares.—To be sanctioned by the Secretary of State within the maximum and minimum in force on, and the classification of goods to be in conformity with that of, the North Western 'Railway.

i) Sialkot-Narowal Railway (5' 6" gauge)—concld.

Main provisions of contract-concld.

- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—

 To be carried, in all respects as far as practicable, in the same manner and subject to
 - (b) Government bullion and coin and the persons in charge thereof.—
- To be carried, in all respects as far as practicable, in the same manner and subject to the same regulations and control by the Secretary of State as the same are carried on the North Western Railway.
- (vii) Power of the Government to determine contract.—Government may, by giving 12 months' previous notice of purchase, determine the contract on the 31st March 1946 or on the 31st March in the last year of any subsequent period of 10 years by paying to the Company in rupees 25 times the average of the yearly net earnings (excluding payments on account of rebate) during the 3 years immediately preceding the date of determination, subject to a limit of 20 per cent. in excess of, but not less than, the total capital expenditure of the Company. Government may also by giving 12 months' previous notice of "special purchase" determine the contract at any time in the following cases.—
 - (a) when it is considered desirable to alter the gauge of the railway.
 - (b) when it is considered desirable to convert the railway into a line of through communication; and
 - (c) when it is considered desirable to extend the said railway and the Company fails to raise additional capital for such extension within 6 months from date of receipt of the formal requisition from Government.
 - If the contract shall be determined by notice of "Special purchase" the Government will pay to the Company in rupees 25 times the average of the yearly net earnings (excluding payment, on account of rebate) during the 3 years preceding the date of determination or 115 per cent. of the total capital expenditure of the Company whichever may be the greater.
- (viii) Power of the Company to surrender contract,-Nil.
- (ix) Term of the contract.—From 15th February 1917 to 31st March 1946 and thereafter as noted under (vii).

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay, includ- ing suspense, to end of each year, i.e., out- lay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings,	Net earnings.	Percentage of net carnings on total capital outlay given in column (3).	Rebate and Adminis- tration charges from the North Western Railway (+) or share of surplus profits to (), the Government.	Total income.	Percentage of total income on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	б	6	7	8	9	10	11
1915-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27 1928-29 1928-29 1928-30	Miles. 38·16 38·16 38·16 38·16 38·16 38·16 38·16 38·16 38·16 38·16 38·16 38·16 38·16 38·38 38·69 38·69	Rs. 24,47,581 27,23,628 27,57,388 25,04,908 27,54,080 27,54,436 27,54,071 27,54,071 27,59,031 27,00,252 28.22,614 28,82,028 28,90,308 29,10,953 29,64,043 29,51,821	Rs. 27,007 2,13,696 2,25,819 2,24,822 2,46,348 3,29,255 3,33,218 3,70,671 3,62,792 4,31,983 4,10,600 4,0,965 3,76,135 3,60,896 4,59,541 4,27,945	Rs. 13,533 1,06,848 1,29,590 1,16,181 1,23,174 1,64,628 1,66,600 1,85,286 1,81,396 2,15,992 2,08,333 2,15,482 1,87,567 1,80,448 2,44,770	0·55 3·92 4·70 4·64 4·47 5·93 6·05 6·73 7·74 7·38 7·48 6·48 6·19 8·26	Rs. +25,023 +38,395 +30,146 +29,300 -5,952 -13,183 -14,112 -12,091 -29,708 -24,380 -26,950 -11,954 -11,978 -43,696	Rs. 13,533 1,32,771 1,67,985 1,52,327 1,52,474 1,68,676 1,71,174 1,69,302 1,80,284 1,83,953 1,88,532 1,75,613 1,68,470 2,01,074	0·55 4·87 6·09 6·08 5·53 5·56 6·22 6·14 6·67 6·52 6·54 6·54 6·78	Rs. 14 107 114 113 124 160 168 187 183 218 210 217 186 217 187	50·00 50·00 42·61 50·00 50·00 50·00 50·00 50·00 50·00 50·00 50·00 50·00 50·00 50·00 50·00
1931-32 1932-33	38·60	29,73,357 30,52,584	3,47,673 4,02,830	2,13,972 1,73,836 2,01,415	7·25 5·84 6·60	-27,304 -6,686 -19,511	1,86,668 1,67,150 1,81,901	6·32 5·62 5·96	210 172 200	50·00 50·00 50·00
1933-34 1934-35 1935-36 1936-37	38·60 38·70 38·70 38·70	30,93,439 31,18,390 31,48,626 31,67,145	4,76,506 4,52,797 4,31,495 4,52,488	2,38,253 2,26,398 2,15,747 2,26,243	7·70 7·26 6·85 7·14	-36,178 -29,446 -23,175 -27,490	2,02,075 1,96,952 1,92,572 1,98,753	6.53 6.32 6.12 6.28	237 224 213 224	50·00 50·00 50·00

(k) Sirhind-Rupar Railway (5' 6" gauge)-

The construction of this line from funds to be provided by the Patiala Durbar was sanctioned in Railway Board's Notification No. 537-Tech., dated the 25th February 1926.

Progress in opening-

			Se	ection	of rai	lway.				-		Date of opening.	Miles.	Total.
					1							2	3	4
Sirhind to Rupar	•	•	•	•	•	•	•	•	•		•	26-2-28	30.88	30.86

(k) Sirhind-Rupar Railway. (5' 6" gauge)-concld.

Details of construction-

Permanent-way—The permanent-way consists of 75-lb. R. F. F. rails laid on deodar sleepers with bearing plates.

Ballast.—The line is fully ballasted. There is stone ballast from 0.0 to 0/14 and from 11/5 to mile 30 and brick ballast from 0/14 to 11/5.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 3°=1,910 feet radius.

Gradient.—The steepest gradient is 1 in 250.

Statistics of Working-

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings. 5	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of ex- penses to earnings.
				· · · · · · · · · · · · · · · · · · ·	0		8
7.00 P.O.C.	Miles.	Rs.	Rs.	Rs.		Rs.	
1927-28	30.23	23,04,683	22,403	11,201	١	٠.	50.00
1928-29	30.96	23,04,683	2,40,572	1,20,286	5.22	149	50.00
1929-30	30.96	23,04,683	2,67,881	1,33,940	5.81	166	50.00
1930-31	30 96	31,54,507	2,26,218	1,13,109	3.59	145	50.00
1931-32	30.96	31,55,520	1,87,344	93,672	2.97	116	50.00
1932.33	30.96	31,55,520	1,54,428	77,214	2.45	96	50.00
1933-34	30.96	31,55,520	1,58,298	79,149	2.51	98	50.00
1934-35	30.96	31,58,287	1,61,550	80,775	2.56	100	50.00
1935-36	30.96	31,60,972	1,53,866	76,932		95	50.00
1936-37	30.96	31,60,972	1,50,421	75,210		93	50.00

(1) Bahawalnagar Fort Abbas-Kut-Al-Imara Railway (5' 6" gauge)—

The construction of this line from funds to be provided by the Bahawalpur Durbar was sanctioned in Railway Board's Notification No. 1268-Tech., dated the 21st October 1926.

Progress in opening-

		Section	on of 1	nilwa	ys.						Date of opening.	Miles.	Total.
	2	3	4										
Bahawalnagar to Faqirwali Faqirwali to Fort Abbas Fort Abbas to Kut-al-Imara	:	•	:	:	•	•	:	:	•	:	4-4-28 8-11-28 4-2-31	40.82 22.69 88.00	
•								T	otal	٠		l	151•51

Details of Construction-

Permanent-way.—The permanent-way consists of 75-lb. flat-footed steel S. S. rails laid on new creosoted chir and fir sleepers with bearing plates except for a length of some 15 miles on Fort Abbas Kut-al-Imara section where 77½ lbs. B. H. rails with new deodar sleepers have been used.

Ballast.—No stone or brick-ballast has been provided in the track; only earth boxing has been provided.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 1,432.5 ft. radius.

Gradients.—The ruling gradient is 1 in 300 un-compensated on a 2° curve.

Statistics of Working-

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1928-29	Miles. 63·08 62·73 151·53 151·76 151·69 151·51 151·51	Rs. 42,00,448 41,66,852 42,39,139 92,26,701 93,53,420 93,43,563 93,43,579 93,55,994 93,58,994	Rs. 1,29,884 1,77,464 1,97,027 1,90,307 2,28,287 2,99,387 3,10,564 3,66,426 3,62,033	Rs. 37,095 37,499 38,755 30,311 45,373 53,093 72,129 92,473 1,26,786	0.88 0.90 0.91 0.33 0.49 0.57 0.77 0.99 1.35	Rs. 39 54 49 24 29 38 39 46	71·44 75·73 78·15 81·06 80·55 81·41 79·05 76·69 70·87

(m) Kalka-Simla Railway (2' 6" gauge)-

The railway was constructed by, and at the cost of, the Delhi-Umballa-Kalka Railway Company. On the representation of the Company it was decided to purchase the Company's interest in the line. This was effected by the payment of £300,000; the Secretary of State waiving all claims to arrears of unpaid interest on the advances, viz., Rs. 1,16,47,512, made to the Company. The purchase of the line by the State was effected from 1st January 1906; but the Company continued to work it under the direct orders of the Railway Board up to the 31st December 1906. It was made over to the North Western Railway administration with effect from the 1st January 1907.

Progress in opening-

Sections of railway.		Date of opening.	Miles.	Total.			
1					2 -	3	4
Kalka to Simla station				•	9-11-03 27-6-09	0,48 29,42	
	Т	'OTAI	Ľ				59 *93

Details of construction-

Permanent-way.—The permanent-way consists of 62, 60 R. type and 411-lb flat-footed steel rails fitted with bearing plates on deodar cuts and sal sleepers.

The 414-lb rails are being renewed with 60-lb and 62-lb flat-footed rails. The sharpest curves are partially check railed with 75-lb and 411-lb rails.

Ballast .- The line is ballasted with stone.

Fencing.—The line is fenced only along the Kalka camping ground and through the outskirts of the town of Kalka and about a mile in Simla.

Curves.—The sharpest curve is of 110 feet radius.

Gradients.—The ruling gradient is 1 in 33 uncompensated.

Contract-

Nil. The line is owned and worked by the State.

Rates and fairs.—May be varied within the limits of certain maxima and minima subject to certain special conditions regarding charges for tunnels.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 33 to the Railway Administration Report for 1906 and in Appendix 1 to the Report for 1913-14)—

Norn:—The figures in this table are also included in the Statistics of working of the North Western Railway (5' 6' gauge)—
vide note on the top of the table of Statistics of working of that Railway.

Year.	Mitcage open at end of each year,	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net carnings on total capital outlay given in column (3).	Interest.	Gain or loss to the State pertaining to each year.	Earnings per mile per weck.	Fro or- tion of expenses to carnings.
1	2	3	4	5	6	7	8	9	10
	Miles.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	
1913-14 . 1014-15 . 1916-16 . 1916-17 . 1917-18 . 1918-19 . 1919-20 . 1920-21 . 1921-22 . 1922-23 . 1923-24 . 1924-25 . 1925-26 . 1926-27 . 1927-28 . 1929-30 . 1930-31 . 1931-32 . 1933-34 . Soparate	59·92 59·92 59·92 59·92 59·92 59·92 59·92 59·92 59·92 59·92 59·92 59·92 59·92 59·92 59·92 59·93 59·93 59·93 59·93	1,99,24,926 1,97,43,601 1,97,64,816 1,97,56,575 1,97,88,117 1,98,12,836 1,98,22,845 2,00,00,615 2,02,36,702 2,04,47,225 2,05,56,182 2,06,20,723 2,07,85,622 2,12,60,843 2,15,66,181 2,17,30,262 2,17,30,707 2,19,11,295 2,20,97,371 2,21,60,966 2,22,43,526 have been disconti	13,34,402 12,82,261 13,47,605 15,53,676 16,12,934 19,74,316 21,77,871 23,20,122 22,40,303 23,37,090 22,87,278 22,27,648 22,59,666 19,34,932 17,11,070 17,52,303 16,94,671 16,93,184 15,16,971 14,36,689 13,08,510 nued with	4,48,750 7,41,912 7,27,650 7,42,212 8,23,957 8,62,669 8,42,568 7,21,643 6,03,374 6,79,144 7,75,223 8,90,358 6,60,845 2,43,086 43,504 —1,96,878 —3,11,745 1,82,035 —88,488 —22,166 —92,349 effect from	2·25 3·76 3·67 3·67 4·16 4·25 3·61 2·98 3·32 3·77 4·31 1·14 0·20 —0·90 —1·43 0·83 —0·40 —0·10 —0·42 the year 1934-	6,28,187 6,42,417 6,39,799 6,07,566 6,40,000 6,42,531 6,76,859 0,61,907 6,79,043 7,03,281 7,10,533 7,25,725 7,46,183 7,03,594 7,62,371 7,75,273 7,88,384 7,88,387 7,89,746	-1,70,437 +09,405 +87,860 +1,31,640 +1,83,957 +2,20,138 +1,05,709 +56,736 -75,669 -9,881 +75,859 -1,02,559 -9,60,442 -10,74,116 -5,93,238 -8,72,432 -8,10,543 -8,82,095	428 412 433 498 518 634 695 745 715 730 713 725 619 540 561 543 542 484 460 419	66·37 42·14 46·00 52·23 48·92 56·31 61·20 68·85 73·07 70·94 66·11 60·03 70·75 87·44 97·45 111·23 118·30 89·25 105·81 101·55 107·06

(n) Kangra Valley Railway (2' 6" gauge)-

The construction of this line by the State agency was sanctioned in Railway Board's Notification No. 802-P., dated the 1st February 1926.

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.	Remarks.
Pathankot to Joginder Nagar	1-12-28* 1-4-29†	102.99	102•99	* For goods traffic. † For passenger traffic.

Details of construction-

· Permanent-way.—60, 60½, 61 and 62 lbs. standard steel flat-footed rails on deodar cut jarrah and treated chir S. S. sleepers.

Ballast.—Earth packing except in small sections where shingle or gravel has been used.

Fencing.—The line is unfenced.

Curves.—Sharpest curve 30° (191 ft. radius).

Gradients.—The steepest gradient is 1 in 25 compensated.

Statistics of working-

Note:—The figures in this table are also included in the Statistics of working of the North Western Railway (5' 6' gauge); vide note on the top of the table of Statistics of working of that Railway.

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Interest.	Gain or loss to the State pertaining to each year.	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8	9	10
	Miles.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	
1928-29 .	103.03	2,73,16,352	43,403	2,45,529	— 0·89	12,63,139	15,08,668	33	665-69
1929-30 .	103.03	2,94,43,161	4,88,964	-3,79,509	1.29	15,08,027	-18,87,536	91	177-61
1930-31 .	102.99	2,97,69,624	7,74,543	6,60,438	-2.22	16,88,704	23,49,142	144	185 • 27
1931-32 .	102-99	2,98,59,182	8,25,388	3,86,111	-1.29	16,84,514	20,70,625	153	146.76
1932-33 .	102-99	3,01,33,678	5,33,568	4,73,163	—l·57	16,61,802	-21,34,965	99	185•18
1933-34 .	102.99	3,03,76,050	4,48,963	-4,87,852	-1.61	16,42,839	-21,30,691	84	208-66
1934-35 .	102.99	3,03,98,689	3,97,812	-6,36,790	-2.09	15,80,143	-22,16,933	74	260.73
1935-36 .	102.99	3,03,93,189	3,63,573	6,99,676	-2.30	15,34,995	22,34,671	68	292.44
1936-37 .	102.99	3,08,95,438	3,49,129	-7,57,284	-2.45	14,80,120	22,37,404	65	316.90

Note:-1. Capital expenditure shown in column 3 against 1929-30 includes both construction and open line capital.

2. The amount of guarantee against loss in net earnings to a maximum of Rs. 4 per annum for 13 years is payable by the Punjab Government as agreed upon (vide Secretary to Government Punjab P. W. D. Buildings and Road Branch No. 60/21/847-G.S., dated the 3rd September 1925 to the Railway Roard). The adjustment of the guarantee for 1929-30 will be made in 1930-31.

(o) and (r) Trans-Indus (Mari Indus-Kalabagh-Bannu) railway (2' 6" gauge)— Progress in opening—

Sections of railway.	Date of opening.	Miles.	Total.
1	2	3	4
o) Main line—Commercial. Kalabagh to Bannu	15-6-13 1-5-16 13-2-22 15-5-21	88·33 46·52 11·82 10·81	7:
Total open mileage	••	••	157-4

Details of construction-

Permanent-way.—The section Mari Indus to mile 2 is laid with S. S. 75 lbs. rails. From mile 2 to Bannu, and mile 21 to Pezu station on the L. P. T. (which is a hill section) is laid with 50 lbs. flat-footed rails. The Tank-Kaur-Manzai section is laid with 60 and 62 lbs. flat-footed steel rails; the rest are 40 lbs. rails. Either N. G. sal or soft wood cuts from B. G. sleepers have been used on this section.

(o) and (r) Trans-Indus (Mari Indus-Kalabagh-Bannu) railway (2' 6" gauge)—concld.

Ballast.—The Kalabagh-Bannu section is ballasted with sand and stone and so is the ghat section o the Laki-Pezu Tank Railway. The rest is earth-packed.

Fencing.—The line is mainly unfenced except in station yards and the road side between Gambila and Bannu and Gul Imam and Tank.

Curres.—The radius of the sharpest curve is 360 ft. on the Kaur-Manzai section and 404.5 ft. on the Laki-Pezu section.

Gradients.—The ruling gradient is 1 in 100 between Mari-Indus and Bannu, and between Tank and Kaur; between Kaur and Manzai, it is 1 in 50 compensated and between Laki Marwat and Tank it is 1 in 45

Contract-

Nil. The line is owned and worked by the State.

Statistics of working-

Note.—The figures in this table are also included in the Statistics of Working of the North Western Railway (5' 6" gaugo)—
ride note on the top of the table of Statistics of Working of that Railway.

Year.	-	Mileag at en each		of each year of (i) lines (ii) lines par	al outlay, in- spense, to end t, i.e., outlay open and tily or wholly istruction.	Gross e	arnings.	Ket ex	Ket earnings.		ntage net ngs on capital y given umn).	Rarnings per mile per week.		Proportion of expenses to earnings.		
1	Ì		2		3	4		5		8		7		8		
	- -	301	'C8.	~	Re.	1	Rs.		Ra.			Rs.				
1913-16		89.9			68,27,036		,18,035	48,490		0.	68		69	78	48	
1014-15		£8*6	1	}	81,82,561	į.	45,918		16,416				75	104	75	
1915-16	}	83.1	1		92,27,536	3	,61,243		-34,678	١.			78	103	60	
1016-17 .	1	135:	39		97,62,951	4	,21,571	[19,450	0.	20	1	61	95	59	
1017-18 .	1	185*:	1.9	1,	07,54,744] 0	,63,082		-75,633		1		94		111-39	
1019-10 .	i	185*:	38	1,	,20,89,285	7	,12,453		-1,83,822		•••		.01	125	80	
1919-29 .	į	135-2	38	1,	37,50,432	11	,18,571	-	-4,90,176		•	1	59	144	95	
1920-21 .	1	135.5	39	1,	67,58,821	12	,25,464		12,25,464			1	74	197	96	
1021-22 .	ì	161.5	55	1,	81,07,345	12	,80,600	15,87,873			•	181		223	99	
	ŕ	Cem.	21110	Com.	MBy.	Com.	Mily.	J,	Mily.	Com	Mily	Com.	Mily.	Com.	Milya	
		eccn.	FCCD.	seen.	seen.	seen.	secu.	Com.	secn.	secn.	accn.	secu.	feen.	scen.	Been.	
1022 23 .	1	136-21	25.53	1,51,13,078	33,17,595	13,03,036	80,200	10,51,711	-1,74,693			193	60	175-18	317-80	
1023-24 .	1	136-20	25-50	1,52,27,620	32,73,282	16,59,015	1,15,185	-1,87,233	-97,724			233	. 86	111 28	184.87	
1024-25 .	ĺ	64-20	72.80	1,03,00,136	85,47,553	12,50,220	3,93,337	-4,98,395	39,024	'	0.45	271	104	139-67	90.10	
1925-26 1926-27 1027-28 1025-29 1926-31 1926-31 1933-34		89-20 89-20 89-20 89-20 89-20 89-40 89-46		1,03,58,025 1,03,90,181 1,03,01,470 1,03,07,021 1,08,27,305 1,02,10,410	85,68,157 85,69,416 85,48,330 84,00,456 84,20,993 85,30,852 84,90,809 84,90,230 85,18,239	11,35,019 10,63,204 9,64,600 9,96,870 10,50,278 8,56,957 6,72,663 6,30,893 6,24,428	1,87,136 1,53,036 1,58,235 1,07,877 1,80,061 1,33,755	-2,75,444 -3,65,742 -5,85,622 -5,02,678 -5,86,664 -6,45,010 -5,45,437 -4,15,751 -4,77,208	-82,289 -2,11,030 -3,13,665 -2,62,692 -2,15,470 -2,79,715 -2,33,232 -2,33,337 -3,09,054	-5.00 -5.00 -4.14	-3·12 -2·56 -3·27 -2·74 -2·80 -3·64	185 145 137	40 40 42 46 50 37	131.40 160.71 150.45 155.85 175.27 181.08	120.05 212.77 301.96 200.01 228.35 255.34 274.30 297.47 387.23	
	•				Separate stat	istics have	been dis	continued with	effect from	the re	ar 103	4-35.				

(p) Zhob Valley Railway (2' 6" gauge) (Military Line)-

This line which had been constructed as an assisted siding of a private company and in use as such from 3rd September 1917 was acquired by the State and incorporated with the North Western Railway with effect from the 1st January 1921.

Progress in opening-

Section of railway.		Date of opening.	Miles.	Total.	Remarks.	
1		2	3	4	5	
Shansi to Hindubagh	٠	*1-1-21	16.00		*For goods traffic in loca	
Hindubagh to Killa Salfullah		2-5-27	39•42		hooking only	
Killa Saifulish to Fort Sandeman	•	†15-1-29	88.42		† For goods traffic.	
Total open mileage		‡15-7-29 ••	••	173-84	‡ For passenger traffic.	

Details of construction-

Permanent-ray.—The premanent-way consists of 414-lb., 60 lb. and 601 lb. flat-footed steel on deoda and jarrah mixed sleepers without bearing plates on the Khanai Hindubagh section, and 35-lb., 60-lb. and 61-lb. flat-footed steel on jarrah and deodar B. G. cuts without bearing plates on steel sleepers on the Hindubagh-Killa Saifulla section, and 60 lb., 61-lb. and 62-lb. flat-footed rails on deodar sleepers without bearing plates on the Killa Saifullah Fort Sandeman Section.

(p) Zhob Valley Railway (2' 6' gauge) (Military Line)-concld.

Ballast.—Nil. The track is packed with the mixture of stone and earth obtained at site. No ballast has been provided between Hindubagh and Killa Saifullah, from Killa Saifullah to Fort Sandeman stone ballast is provided for points and crossings and at the approaches to bridges and level crossings used by vehicular traffic.

Fencing.—The line is unfenced.

Curves.—The sharpest curve has a radius of 573 feet. Hindubagh to Killa Saifullah is 728 '75 feet radius.

Gradients.—The maximum gradient is 1 in 58 between Hindubagh and Killa Saifullah and 1 in 50 compensated between Killa Saifullah and Fort Sandeman and 1 in 40 compensated between Khanai and Hindu Bagh.

Contract-

Nil. The line is owned and worked by the State.

Statistics of working-

Note: -The figures in this table are also included in the Statistics of working of the North Western Railway (5' 6' gauge) - ride note on the top of the table of Statistics of working of that Railway.

			· · · · · · · · · · · · · · · · · · ·					
Year.		Milenge open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net carnings on total capital outlav given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1		2	3	4	5	6	7	8
		Miles.	Rs.	Ra.	Rs.		Rs.	
1922-23		46.00	31,38,205	57,086	-81,763	٠	24	241 00
1923-24	•	46.00	31,61,369	62,471	1,59,548		26	355•39
1924-25		46.00	38,70,621	99,785	2,50,536		42	350-97
1925 26		48.00	39,05,819	95,031	1,90,118	••	40	309-52
1026-27		46.00	39,27,533	1,41,525	-1,59,611	••	59	212-79
1927-28		85.42	59,04,012	1,04,929	-4,71,426	••	44	341-85
1928-29	•	174.08	1,05,28,060	2,28,374	-4,38,480	-4.16	25	292.00
1929-30	•	173.84	1,16,72,331	4,68,931	-10,90,383	9:34	52	332•53
1930-31		173-81	1,18,17,387	4,48,617	-9,17,325	—7·7 6	49	304•48
1931-32		173-81	1,19,23,261	3,18,737	-10,07,070	8·45	35	415.95
1932-33		173 · 84	1,19,71,231	2,43,551	8,11,529	—6·7 8	27	433-21
1933-31 Soparate	sin	173.84 tistics have	1,19,83,225 been discontinued with	2,59,401 effect from	-7,23,437 the year	6·04 1934-35.	29	378•89

(q) Kohat-Thal Rallway (2' 6" gauge) (Military Line)-

Originally the line was on the 2' 6" gauge from Khushalgarh, from which place to Kohat it was converted into 5' 6" gauge and merged in the North Western railway proper in 1908.

Progress in opening-

Section of railway.		Date of opening.	Miles. 3	Total.
Kohat to Thal	•	1-4-03	61.86	61.86

(9) Kohat-Thal Railway (2' 6" gauge) (Military Line)-concld.

Details of construction-

Permanent-way.—The line is laid partly with 41½ lb, and partly with 35 lb, 40 lb, 60 lb. and 62 lb. flat-footed rails on wooden sleepers. On bridges the rails are 90 lb.

Ballast .- The line is ballasted throughout with broken stone

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 239 feet radius

Gradients.- The ruling gradient is 1 in 100.

Centract-

Nil. The line is owned and worked by the State.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and Appendix 1 to the Report for 1913-14)—

Norn.—The figures in this table are also included in the Statistics of Working of the North Western Railway (5' 6" gauge)—
ride note on the top of the table of Statistics of working of that Railway.

						And in case of the last of the	The Party and Publishers and Publish
Усаг.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of the year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net carnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8
	Miles	Rs.	Rs.	Rs.		Rs.	
(913-14 1914-15 1915-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27 1927-28 1928-29 1929-39 1930-31 1931-32 1932-33 1933-31 1937-31	61.75 61.75 61.75 61.75 61.75 61.75 61.75 61.75 61.75 61.75 61.75 61.75 61.75 61.75 61.75 61.75	43,70,614 43,90,461 44,14,291 42,59,494 42,79,892 42,70,642 42,32,061 42,22,838 44,01,190 44,33,595 44,90,665 45,09,375 45,35,156 45,78,184 45,84,636 46,48,433 47,34,905 47,66,524 47,77,931 47,91,431 continued with effect	1,38,223 1,40,484 1,84,518 1,76,097 1,82,671 1,71,031 2,70,361 1,06,129 2,08,284 2,22,003 2,36,601 1,68,737 2,37,054 2,19,280 2,18,470 1,72,644 1,63,412 1,45,210 1,28,014 1,29,774 1,01,350 from the year	-6,799 -58,750 -29,241 +7,010 -18,144 -32,649 -1,98,895 -3,82,557 -2,43,200 -3,05,202 -2,16,644 -3,46,999 -2,73,462 -3,46,525 -3,40,949 -3,90,370 -4,36,901 -4,49,143 -3,49,209 -3,82,638 -3,34,648 1934-36.	 0·16 	43 44 57 45 57 53 84 61 65 69 73 52 74 68 68 54 51 45 40 40	104·92 141·82 116·82 109·93 119·09 113·50 295·05 216·76 236·92 101·26 308·05 215·36 258·02 256·08 326·11 367·36 409·31 372·80 394·86 430·18·

⁽r) Please see under item (o).

So

(s) Jacobabad-Kashmor Railway (2' 6" gauge)-

Managing Agents.-Messrs. Forbes, Forbes, Campbell & Co., Karachi.

Date of registration of the Company. -- 30th April 1913.

The construction of this line by the Upper Sind Light Railways, Jacobabad-Kashmor Feeder Company, Limited, was sanctioned under Railway Board's Notification No. 282, dated the 16th October 1913. Progress in opening—

	, ,	,		
Section of railway,	Date of opening.	Miles.	Total.	
1	2	3	4	
Jacobabad to Kashinor	1-12-14	76.46	76:46	

Details of construction-

Permanent-way.—The permanent-way consists of 30-lb flat-footed British standard steel rails on sal and S. S. deodar sleepers.

Ballast.—The line is not ballasted.

Fencing.—The line is unfenced, except round Jacob bad station yard.

Curves.—The sharpest curve is of 935 feet radius.

Gradients.—The ruling gradient is 1 in 200,

(s) Jacobabad-Kashmor Railway (2' 6" gauge)-contd.

Contract-

Dated the 29th July 1916, between the Secretary of State and the Upper Sind Light Railways, Jacobabad-Kashmor Feeder Company, Limited, as to the construction, maintenance, management and working of the Jacobabad-Kashmor railway.

Railway Board's letter No. 225—2547-P., dated the 5th August 1915, sanctioning the raising of an additional capital of Rs. 2 lakhs for the completion of the Jacobabad-Kashmor Railway.

Main provisions of contract-

- (i) Land.—In British territory provided by Government free of cost.
- (ii) Government aid.—By way of rebate the Government allow to the Company, in respect of each year, such a sum, not exceeding the net earnings of the North Western Railway derived from all traffic (except stores) interchanged between the North Western Railway and the said railway as shall, together with the net earnings of the Company, be equal to the interest for the year at a rate of 5 per cent. per annum on the actual expenditure charged in the Capital Account. Government also allow subject to the conditions mentioned in clause 6, Schedule II of the contract, a sum of Rs. 7,500 for or towards office expenses and the expenses of management and direction of the Company, as also all such legal expenses as are properly incurred by the Company and approved by the Secretary of State or the Government of India. and as are under the provisions of the contract debitable to Revenue.
- (iii) Terms of working.—

 For management, maintenance and working, Government retain

 45 per cent. of the gross earnings of the said railway, the remainder
- (iv) Distribution of profits.— I constituting the net earnings is paid to the Company. But should the net earnings of the Company in any year exceed the minimum amount sufficient to pay a dividend of 5 per cent. per annum, such excess is to be applied towards the payment of office expenses and expenses of management and direction of the Company for the year up to a limit of Rs. 7,500, the balance, if any, being divided equally between Government and the Company. Provided that if the surplus profits are insufficient to meet the administration charges, the balance will be paid to the Company by the working agency out of the stipulated amount retained by the latter as working expenses.
- (v) Rates and fares.—To be sanctioned by the Secretary of State within the minimum and maximum in force on, and the classification of goods to be in conformity with that of, the North Western Railway.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—
 - (b) Government bullion and coin, and the persons in charge thereof.—
- To be carried in all respects as far as practicable in the same manner and subject to the same regulations and control by the Secretary of State as the same are carried on the North Western Railway.
- (vii) Power of the Government to determine contract.—The Government may, by giving 12 months' previous notice of purchase, in writing, determine the contract either on the 31st March 1945 or on the 31st March in the last year of any subsequent period of 10 years by paying to the Company in rupees 25 times the average of the yearly net earnings (excluding payments on account of rebate) during the 3 years immediately preceding the date of determination subject to a limit of 20 per cent. in excess of, but not less than, the total capital expenditure of the Company.
 - The Government may also, by giving 12 months' previous notice of "special purchase," determine the contract at any time in the following cases:—
 - (a) When it is considered desirable to alter the gauge of the railway.
 - (b) When it is considered desirable to convert the railway into a line of through communication.
 - (c) When the Secretary of State desires to extend the said railway (without altering the gauge or making the line part of a through route) and the Company is unable or unwilling to supply the necessary capital for such extension.
 - If the contract shall be determined by notice of "special purchase," the Government will pay to the Company in rupees 25 times the average of the yearly net earnings (excluding payments on account of rebate) during the 3 years preceding the date of determination or 115 per cent. of the total capital expenditure, whichever may be the greater.

12. NORTH WESTERN RAILWAY SYSTEM—contd.

(s) Jacobabad-Kashmor Railway (2' 6" gauge)-concld.

(viii) Power of the Company to surreendr contract .- Nil.

Statistics of working-

Year	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (1) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	or share of surplus profits payable to the Secretary of State in England (—).	Total income.	Percentage of total income on total capital outlay given in column (3).	ZEarnings per mile per week.	Proportion of expenses to carnings
1	2	3	4	5	6	7	8	9	10	11
	Miles.	Rs.	Rs.	Rs.		Rs.	Rs.		Rs.	
1914-15 .	76.70	20,90,487	21,420	11,781	0.56		11,781	0.56	16	45.00
1915-16 .	76.74	22,21,742	1,36,347	74,991	3.38	+26,442	1,01,433	4.56	34	45.00
1916-17 .	76.70	22,57,892	1,49,121	67,104	2.97	+30,127	97,231	4.30	37	45.00
1917-18 .	76.70	21,84,818	1,34,280	73,854	3.38	+60,373	1,31,227	6.14	34	45.00
1918-19 .	76.70	22,16,490	1,32,591	72,925	3.29	+24,786	97,711	4.41	33	45.00
1919 20 .	76.70	12,33,067	24,858	13,672	0.61	+1,04,441	1,18,113	5.20	6	45.00
(920-21	76.70	22,37,813	160	88		+1,19,159	1,19,247	5.33		45.00
1921-22	76.70	22,57,403	1,50,117	82,949	3.67	+36,453	1,19,402	ŏ•29	37	45.00
1922 23	76.70	22,85,967	2,25,113	1,23,812	5,42	911	1,22,448	5.38	56	45.00
1923 24 .	76.70	23,06,709	1,88,160	1,03,488	4.48	+30,257	1,33,715	5.79	47	45.00
1924-25	76 70	23,62,051	1,94,246	1,06,835	4.52	+21,502	1,28,337	5.43	49	45.00
1925 26	76.70	24,35,830	2,13,306	1,17,318	4.82	+7,319	1.24,667	5.12	54 53	45.00
1926-27 .	76.70	24,37,297	2,09,621	1,15,292	4·73 5·05	+23,015	1,38,307	5·67 5·48		45.00 45.00
1927-28	76.70	24,27,084	2,23,109	1,22,710		+10,422	1,33,132 1,29,141	5.29		
1928-29 .	76.46	24,38,540	1,89,352	1,04,144	4·27 4·22	+21,007	1,29,141	5.31	47 47	45.00
1929-30		24,37.386	1,87,393	1,03,066		+26,332		5.31		
1930-31	76·46 76·46	24,37,300	2,04,352	1,12,394	4.61 3.60	+17,130	1,29,524 1,29,402		34	45.00 45.00
1931-32 . 1932-33 .	76.46	24,38,786 24,41,115	1,59,434 1,62,823	87,689 89,553	3.67	+41,713 +39,945	1,29,402	5·31 5·30	40 41	45.00
1933-34	76.46	24,41,113	1,02,823	90,850	3.07	+38,706	1,29,498	5.31	41	45.00
1934-35	76.46	24,44,641	1,42,791	78,535	3.12	+51,109	1,29,634	5.30	36	45.00
1935-36	76.46	24,49,054	1,37,759	75,767	3.09	+54,075	1,29,842	5.30	34	45.00
1936-37	76.46	24,55,562	1,48,777	81,827	3.33	+48,288	1,30,115	5.30	37	45.00
200-01		21,00,002	-,,.,,	01,027	` ""	1-30,200	-,00,110	·· .	0,	20 00

(t) Larkana-Jacobabad Railway (2' 6" gauge)-

Maraging Agents.-Messrs. Forbes, Forbes, Campbell & Co., Kurachi

Date of registration of the Company.--1916

The construction of this line by the Sind Light Railway Company was sanctioned under Railway Board's Notification No. 452-P., dated the 9th March 1916

Progress in opening-

	Sec	tions	of rail	way.	 				Date of opening.	Miles.	Total.
Larkana to Shahdadkot								•	16-2-22	31.80	
Shahdadkot to Dodapur		•							1-10-23	21.42	
									<u> </u>		
						To	rat.				53•22

Details of construction-

Permanent-way.—The permanent-way consists of 30-lb flat-footed steel rails laid on deodar sleepers Ballast.—The line is ballasted with brick for a short distance on each side of all bridges and at points and crossings.

Fencing.—The line is unfenced.

Curves.—The sharpest curve has a radius of 573 feet.

Gradients.—The line has a grade of 1 in 500 except at the approaches on each side of Namang Wah and Noor Wah where the grades are 1 in 200,

Agreement-

Dated the 5th February 1924 between the Secretary of State and the Larkana-Jacobabad (Sind) Light Railway, Limited, as to the construction, maintenance, and working of the Larkana-Jacobabad Railway.

Main provisions of agreement—

(i) Land.—Provided by the Government free of cost to the Company, in British territory (including land permanently or temporarily required for quarrying hallast, brick fields, and kindred purposes)

land permanently or temporarily required for quarrying ballast, brick fields, and kindred purposes).

12. NORTH WESTERN RAILWAY SYSTEM-contd.

(t) Larkana-Jacobabad railway (2' 6" gauge)-concld.

Main provisions of agreement-concld.

- (ii) Government aid.—When the net receipts of the Company in any year shall not be sufficient to pay interest on the paid-up share capital of the Company at the rate of 5 per cent. per annum, the Secretary of State shall allow by way of rebate to the Company a sum not exceeding in any year the net earnings of the North Western Railway derived from all traffic interchanged between the North Western Railway and this Railway as shall together with the net earnings of the Company be equal to the interest for the year at 5 per cent. per annum on the paid-up share capital of the Company; when the net earnings of the Company shall exceed the minimum amount sufficient to pay interest on paid up share capital such excess shall be applied for towards the payment of office expenses, and expenses of management and direction of the Company during such year up to the limit provided for in clause 6 of Schedule II and the balance if any shall be divided equally between the Government and the said Company.
- (iii) Terms of working.—The Secretary of State shall work and maintain the Railway and maintain all necessary rolling-stock through the Agency of the North Western Railway or through any other Agency to be selected by him for 45 per cent. of gross earnings.
- (iv) Distribution of profits.—When the net receipts of the Company exceed interest at 5 per cent. on the paid up share capital of the Company for the time being the office expenses and expenses of management of the Company to the limit provided for in clause 6 of Schedule II shall be a first charge on surplus profits before they are divided in accordance with the provisions of clause 4 of this Schedule Provided that if the surplus profits are not sufficient to meet the administration charges the balance will be paid to the Company out of the stipulated percentage of the earnings of the said Railway to be retained by the Secretary of State as working expenses under clause 3 of this Schedule.
- (v) Rates and fares.—The rates and fares for the carriage of goods and coaching traffic over the said Railway and the classification of goods thereon shall be in conformity with that from time to time in force on the North Western Railway.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—
 - (b) Government bullion and coin and the persons in charge thereof.—
- To be conveyed at the same rates and under the same arrangements as apply to State Railways.
- (vii) Power of the Government to determine contract.—The Government may by giving not less than 12 months' previous notice of purchase determine the contract either on the 31st March 1954 or on the 31st March in the last year of any subsequent period of 10 years a sum of money equal to 25 times the amount of the average of the yearly net earnings derived by the Company during the 3 years immediately preceding the date of purchase; but so that the total amount so payable to the Company shall not in any case exceed by more than 20 per cent. the total capital expenditure of the Company as appearing in the capital account of the Company or be less than such total capital expenditure.
- The Government may also by giving to the Company 12 months' previous notice of "special purchase" determine this contract at any time in certain cases specified in Clause 45 (3) and pay, within four months from the date of determination, to the Company a sum equal to 25 times the average of the yearly net earnings derived by the Company during the three years preceding this date or 115 per cent. of the total capital expenditure of the Company as appearing in the Capital Account of the Company, whichever may be the greater.

Statistics	οľ	working-
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Year.	Milcage open at end of the year	Total capital outlay, including suspense, to end of the year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings,	Net carnings.	Percentage of net earnings on total capital outlay given in column (3).	Rebate from + or share of surplus profits payable to the () the North Western railway.	Total income.	Percentage of total income on total capital outlay given in column (3).	r mile per	Proportion of expenses to earnings.
1	2	3	4	5	6,	7	8	9	10	<u>"11</u>
1921-22 1922-23 1923-24 1924-25 1925-26 1926-27 1927-28 1928-29 1929-30 1930-31 1931-32 1932-33 1933-34 1934-35 1935-36 1936-37	Miles. 31·53 31·80 53·24 53·24 53·24 53·24 53·22 53·22 53·22 53·22 53·22 53·22 53·22 53·22 53·22 53·22	Rs. 21,99,000 22,85,000 28,30,761 30,23,576 30,28,987 30,29,907 30,33,799 30,44,852 30,41,129 30,45,343 30,45,514 30,58,477 30,59,467 30,61,040 30,68,825	Rs. 21 523 1,74.531 1,91,724 2,28,368 2,39,807 2,32,728 2,48,066 2,43,151 2,37,108 2,40,478 2,01,366 1,93,652 2,40,908 2,40,908 2,40,908 2,62,173	Rs 11,838 95,992 1,05,449 1,25,603 1,31,894 1,28,000 1,36,436 1,33,733 1,30,409 1,32,263 1,10,751 1,06,509 1,33,851 1,32,499 1,32,494 1,44,195	0·54 4·20 3·72 4·15 4·35 4·22 4·49 4·39 4·28 4·33 4·33 4·33 4·70	Rs. —921 —819 +22,862 +39,323 +34,502 +43,119 +35,580 +29,837 +36,715 +41,144 +54,688 +62,510 +31,742 +27,881 +30,444 +17,556	Rs. 10,917 95,173 1,28,311 1,64,926 1,66,396 1,71,119 1,72,016 1,63,570 1,67,124 1,73,407 1,65,439 1,69,019 1,65,593 1,60,380 1,62,888 1,61,751	0·49 4·17 4·53 5·45 5·49 5·67 5·37 5·40 5·70 5·43 5·55 5·41 5·24 5·32 5·27	Rs. 95 100 69 82 87 84 91 88 85 72 70 88 87 86 95	47:42 45:40 45:00 45:00 45:00 45:00 45:00 45:00 45:00 45:00 45:00 45:00 45:00

12. NORTH WESTERN RAILWAY SYSTEM—contd.

(u) Delhi-Umballa-Kalka Railway (5′ 6″ gauge)—

Statistics of Working [including the Jind-Panipat Railway (Indian State Section) from 1916-17].—

Note.—From 1926-27 the figures are included in the statistics of working of the North Western Railway (5' 6' gauge)—

		3	8	of each	outla suspe of ex outl open partly unde	tal capital y, includin nsc, to end sch year, i. ay on (i) li and (ii) lin or wholly or construction.	nes		N	et earni	ngs.	eas tot	of net ming of tal capi outlay, iven in olumn (& (5).	n tal		including section	Umballa- Railway, ig British of Jind- Railway.			dngs.
•	ear.	Krail incle Bri scot Jir Pani Rail	balla- ilka way, iding tish ion id- pat way,		way, inc ing Brit section of Jind-Pani Railwa	a Stead section of the section of th	lian ito ion f d-	Gross nings.	Delhi Umba Kal railwi includ Britis section Jind- Panip Railwi	lla- ka by, ing h of P	idian State etion of Sind- unipat ilway.	Delhi Umbal Kalk Railwa includi Britis sectior of Jine Panipe	lla- India S ing Sing tion ing tion in Pani in Rail	lian tate co- n of nd- ipat way.	Subsidy from Gov- ern- ment	Tot		otal me otal tal y in	Earnings per mile per week.	Proportion of expenses to sernings.
	1	_	2	3	4	′		6	7		8	9	1	0	11	12	13	- 1	14	15
		Mile	3.	Miles.	Rs.	Rs		Rs.	Rs.		le.		丁		Rs.	D.	_	-		
1891		. 162	24	••	1,55,44,6	92	9,0	7,697	4,72,0	02	.	3.04		.		Re. 4,72,0	na .	- 1	Rs.	
1892	•	. 161 -	- [••	1,58,22,1	37	10,8	1,769	5,62,5	20	.	3.56	1.		••	5,62,5		·04 ·58	128	48.0
1893	•	1		••	1,55,24,6	"	11,9	3,508	6,23,2	24 .	.	4.01		.		6,23,2			129 143	48·0
1894 1895	•	161	- }	••	1,55,25,5	, ,,	13,3	7,526	6,95,51	14 .	.	4.48	·	.		6,05,5			159	48.00
1896	•	160.	- 1		1,55,06,12		ł	0,519	7,59,47	10 .	.	4.90			••	7,59,4	!		174	48.00
1897		162-2	- 1	:	1,54,49,78	1	ł	3,840	6,85,79	7 .	.	4-44			••	6,85,79	[158	48.0
1898		162 - 2	- 1		1,53,26,58 1,53,43,58	.	ł	3,319	8,18,12	1	.	5.31			••	8,18,12	26 5.		186	48-0
1899		162-2	4		1,53,01,27		16,0		8,25,90	ı	.	5.45				8,35,90	5.	45 1	91	48-00
1900		162.2	1		1,53,15,46	i	13,72		7,53,67			4-93			••	7,53,67	7 4.	03 1	72	48.00
1901		162-2	4		1,52,92,648	1	18,03	- 1	7,13,715 0,39,010	.		4.66		İ		7,13,71	2 4.	66 1	63	48.00
1902	•	162-2	1		1,54,23,791		18,66	1	9,70,681	.		6.14	••	ı		9,39,04	6 6.	14 2	13	48-00
1903	•	162.3	3		1,55,49,998	I	18,30	1	9,52,099			6-12	••			9,70,68		29 2	21	48-00
1904		162.36	;		1,55,51,763	i	18,53	i	9,63,807	.		6.20	••	- 1	.	9,52,099	1	2 2	16	48-00
1905	•	162 - 36		.	1,56,97,499	.:	20,16,	- 1	10,48,807	1		6.72	••		.	9,63,807		-	18	48 •00
1906	•	162 - 36	1 .	•	1,57,26,333		20,04,	- 1	10,42,194			6.63	••	Ì	- 1	10,48,807		-	13	18-00
1907		162-36	.	• :	1,58,23,198		23,04,	059	11,98,423		-	7.57	••	.	- 1	10,42,194		"	7 4	8.00
1908	•	162.36	-	• 1	1,60,07,122		21,09,	- 1	10,96,778			6.85	••	.	- 1	11,98,423 10 06 220	í	_	- }	8-00
1909	\cdot	162.36		. 1	,66,56,595		22,90,	710	11,91,169			7-15	••	.	- 1	10,96,778 !1 01 160]	1.		8.00
910	- i	192-13	.	· 1	,75,45,512		26,05,8	303	13,55,018		- 1	7.72	••		- 1	11,91,169 13,55,018	1			8-00
911	- 1	192 · 12	.	. 1	,77,78,158		31,53,0	21	16,39,571			9-22	••		ſ	16,39,571	7.75	1	- 1	8.00
912 st qr. '13	- [192 - 12	.	_ ⁻	,79,12,579		32,30,3	26 1	16,79,769			0.39	••		- 1	6,79,769	9.22	1		8-00
913-14 ,	- (192 - 12	'	1	,79,34,924	••	8,36,5	56	4,35,009		:	2-43	••		- 1	4,35,009	2.43	1	- 1	8.00
914-15 .	-1	192·12 191·64		- 1 -	80,32,784	••	31,67,2	02 1	6,46,945		1	0.13			í	6,46,945	9.13	1	1	3·00 3·00
915-16 .	-	191.64		,	84,33,052	••	32,15,6		6,72,114		1	0.07			- 1	6,72,114	9.07	1	1	s∙00 3∙00
016-17 .		206-40	25.		92,01,786	••	31,82,9	- 1	6,55,153	••	8	1.62		۱.,	- 1	6,55,153	8.62	319		··00
017-18 .	1	206-40	25.		94,98,488 95,27,500	15,99,054	36,59,88	- 1	8,85,843	17,299	0	-67	1.08			3,85,843	9.67	303	1	1.00
18-19 .	Ĺ	06-40	25.	""		16,74,021	44,31,20	- 1	2,47,872	56,355	11	·51	3.37		1	2,47,872	11.51	367	1	•00
19-20 .	i	06-40	25.9	-"		17,60,028	45,55,14	- 1	2,92,781	75,892	11	-70	4.31		1	,92,784	11.70	377	1	-00
20-21 .	2	06-49	25-8	-"		17,83,310	51,01,87	- 1	5,74,652	78,320	13	•09	4.39		25	,74,652	13.09	422	ı	•00
21-22 .	20	06-40	25.9			17,96,745 17,96,745	53,52,38		,04,913	78,326	13	- 1	4.36	••	27	,04,913	13.69	443	ł	.00
2-23 .	20	06-40	25.9	-,"	1	17,30,450	48,59,64	1	,62,822	64,195	12	- 1	3.57	••	24	,62,822	12.37	402	48	
3-24 .	20	6.51	25.9			17,30,450	56,16,15° 52,23,410	1	,35,811	84,591	14.	}	4.80	••	28,	,35,811	14-13	465	48	
4-25 .	20	6.51	25.9	ı		7,30,529	57,08,353			81,075	13.	- 1	4.69	••	26,	35,098	13-13	432	48.	
5-26 .	20	5.76	25-90	- 1		7,30,529	53,39,491	1	i	89,011	14.	1	5.14	••	28,	79,333	14.33	472	48.	00
- 1		-				,,040	~~,~,*;;1	127,	18,810	89,365	13.	53	5-16	••	27,	18,810	13-53	443	48•	00

12. NORTH WESTERN RAILWAY SYSTEM-contd.

(v) Southern Punjab Railway (Main Line) (5' 6" gauge).

Note.—From 1929-30 the figures are included in the statistics of working of the North Western Railway (5' 6" gauge). Statistics of Working—

Year,	Mileage open at end of each year.	Total capital outlay including suspense to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of not earnings on total outlay given in column (3).	Rebate from N. W. Ry.(+), or share of surplus profits, payable to the Secretary of State in England (—).	Total income.	Percentage of to tal income on total capital in column (3).	Earn- ings per mile per week.	Proportion of expenses to earnings.	Remarks.
1	2	3	4	- 5	6	7	8	9	10	11	12
	Miles.	Rs.	Rs.	Ra.		Rs.	Rs.		Rs.		
1897 1898 1899 1900 1900 1901 1902 1903 1905 1906 1907 1908 1909 1909 1909 1909 1911 1912 18t qr. of 1913 1913-14 1914-15 1916-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1921-22 1922-23 1923-24 1924-25 1926-27 1927-28 1,1928-29 1929-30	399-80 399-80 399-80 423-18 423-93 423-93 424-72 425-33 425-33 425-33 425-33 425-34 423-76 424-06	1,09,08,813 2,23,62,921 2,26,68,262 2,26,67,693 2,25,70,734 2,27,03,660 2,28,27,906 2,30,13,0,148 2,31,19,761 2,35,69,932 2,39,18,571 2,47,31,830 2,49,47,567 2,562,21,112 2,62,48,269 2,70,79,223 2,72,88,117 2,73,83,003 2,76,40,940 2,77,48,602 2,7	1,61,038 16,20,122 16,11,010 16,30,280 24,90,333 10,41,541 21,69,168 27,47,442 36,40,372 41,67,059 60,37,456 44,44,156 33,16,733 43,21,320 50,29,087 58,22,883 10,97,911 57,93,223 52,97,182 63,24,292 55,33,401 77,226 73,71,010 81,52,678 72,06,416 80,87,022 1,03,35,110 1,08,95,706 1,10,55,683 78,680,080	77,298 7,81,978 7,81,978 7,89,360 11,98,240 9,31,940 10,36,396 13,18,772 17,47,379 20,00,188 24,17,978 21,33,194 15,01,551 15,074,234 24,13,962 28,23,764 24,13,962 28,23,764 24,13,963 25,42,648 30,34,181 20,54,729 35,18,639 44,04,817 35,37,971 35,13,838 34,61,229 38,81,768 49,63,412 52,27,275 52,27,275 53,21,283 30,81,590	0.30 3.40 3.41 3.48 5.31 4.00 4.54 5.74 7.50 8.65 10.43 9.14 12.11 10.85 9.60 11.20 9.73 12.85 12.99 12.74 13.81 14.09 17.07 17.88 14.09 17.07 17.88 14.09 17.07 17.88	+19,042 +17,318 +3,562 -2,53,276 -89,973 -1,16,614 -2,40,817 -4,64,082 -7,76,243 -6,28,229 -3,56,959 -5,64,776 -7,66,864 -9,66,408 -1,47,201 -0,22,290 -7,77,581 -10,22,377 -8,46,087 -14,68,431 -10,22,377 -14,68,431 -10,22,377 -14,68,431 -10,22,377 -12,09,424 -13,94,244 -11,955,104 -11,22,257 -17,23,790 -17,23,790 -17,23,790 -19,98,564 -20,95,783 -14,69,434 -19,55,104 -19,55,104 -19,55,104 -19,55,104 -19,55,104 -19,55,104 -10,55,1	97,240 7,81,978 7,90,603 7,92,022 9,44,965 8,41,967 9,19,782 10,77,955 12,93,297 14,23,229 16,41,735 15,04,965 17,65,064 18,67,376 3,79,751 18,58,605 17,65,064 20,11,804 20,11,804 20,11,804 20,11,804 20,10,248 24,43,920 22,58,635 24,87,624 20,10,248 24,43,920 30,08,308 31,05,018 27,06,121 27,06,121 27,06,121	0.49 3.48 3.69 4.70 5.62 6.16 6.24 6.19 6.82 7.55 1.52 6.72 7.43 7.63 7.63 7.64 8.63 7.69 8.69 10.14 10.44	52 74 73 74 113 88 98 124 165 188 202 150 203 240 285 264 263 331 414 333 368 326 465 490 416 451 473 490	52.00 52.00	Adjustments under the Cripps, award were brought into account in 1901, but in these statistics they have been adjusted and allocated to the proper years. The figures of Secretary of State share of surplus profits from S. P. Railway have been accounted for up to end of 31st December 1929.

(w) Southern Punjab Railway (Jullundur Doab Extension) (5' 6" gauge).

Note.—From 1929-30 the figures are included in the statistics of working of the North Western Railway (5' 6" gauge).

Year.	Mileago open at end of each year.	Total capital outlay, including suspenso, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net carnings.	Percentage of net carnings on total capital outlay given in column (3).	Rebato from North Western Railway (+) or share of surplus profits payable to the Secretary of State in England (-).	Total income.	Percentage of total income on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.	Gain on oxchange in respect of the Company's remit- tances that of which has been paid to the Scenetary of State in England as a share of surplus profits.
1	2	3	4	5	6	7	8	9	10	11	12
	Miles.	Rs.	Rs.	Rs.		Rs.	Rs.	İ	Rs.	,	Rs.
1912	. 28-25 32-73 102-97 133-48 130-19 130-19 130-19 130-19 130-19 130-19 132-79 132-79 132-79 132-79 132-79	1,01,82,301 1,10,18,745 1,32,40,258 1,31,32,305 1,32,61,134 1,32,40,677 1,32,44,224 1,32,66,207 1,32,84,927 1,33,07,056 1,33,65,657 1,34,10,587 1,34,23,803 1,33,13,357 1,34,96,026 1,35,72,201 1,35,72,201 1,35,72,301 1,36,4,678 1,36,21,662	8,129 29,673 2,62,639 4,49,006 4,52,987 4,63,283 4,18,204 4,30,211 4,67,400 6,08,493 6,26,797 7,02,090 7,24,049 8,25,430 8,33,031 8,00,052 8,34,392 7,70,028 5,84,703	3,902 14,243 1,26,647 2,15,523 2,17,523 2,12,376 2,00,738 2,06,502 2,24,356 2,02,076 3,00,862 3,37,436 3,47,544 3,96,206 3,98,206 3,98,206 3,73,934 2,80,658	0.03 0.13 0.93 1.64 1.63 1.68 1.51 1.50 2.25 2.52 2.52 2.52 2.93 2.90 2.83 2.95	+17,649 +1,72,394 +3,52,781 +3,81,500 +3,72,278 +3,95,260 +3,90,990 +3,72,491 +3,06,033 +2,90,248 +2,64,706 +2,55,482 +2,09,075 +2,05,343 +2,24,395 +2,37,015 -1,78,362	3,902 31,892 2,98,461 5,68,304 5,98,508 6,94,654 5,95,908 5,96,592 5,96,847 5,98,109 6,00,110 6,02,142 6,03,026 6,05,281 6,05,281 6,05,198 6,08,420 6,09,315 6,10,049	0.03 0.29 2.25 4.33 4.50 4.50 4.50 4.50 4.50 4.50 4.50 4.50	13 70 60 65 66 62 64 69 93 102 105 120 121 116 121 113	52-00 52-00 52-00 52-00 52-00 52-00 52-00 52-00 52-00 52-00 52-00 52-00 52-00 52-00 52-00	90,062 38,775 12,887 698 16,087 47,361 49,791 45,840 48,048 49,026

12. NORTH WESTERN RAILWAY SYSTEM—concld.

(x) Southern Punjab Railway (Ludhiana Extension) (5' 6" gauge)-

Note.—From 1929-30 the figures are included in the statistics of working of the North Western Railway (5' 6" gauge).

...Statistics of working-

Year, ope Year, en ea ye	Total capital outlay, meluding suspense, to end of each of ear. In a to end of each outlay on (1) limes open and (1) limes partly or wholly under construction.	Gross earnings,	Net cornings.	Percentage of net earnings on total capi- tal outlay given in column (3).	Rebate from North Western Railway (+) or share of surplus profits payable to the Secretary of State in Lingland (—).	Total income.	Percentage of total income on total capital outlay given in column (3).	Earnings per milo per week.	Proportion of expenses to earnings.
M	iles. Rs.	Rs.	Rs.		Rs.	Rs.		Rs.	
1906	77-05 70,09,660 55 05 79,33,781 52-04 83,43,814 52-04 87,92,987 52 04 89,06,132 52-04 90,16,132 52-04 90,16,163 52-04 90,16,163 52-04 91,56,178 52-04 92,45,584 52-04 92,71,455 52-04 92,20,490 52-04 93,29,624 52-04 93,29,624 52-04 93,29,634 52-04 93,32,58 52-04 93,32,58 52-04 93,32,58 52-04 93,32,58 52-04 93,32,58 52-04 93,32,58 52-04 93,32,58 52-04 93,32,58 52-04 93,32,58 52-04 93,32,58 52-04 93,32,58 53-35 94,48,58 53-35 99,44,835 53-35 99,44,239 53-35 99,48,870 99,86,367	73,332 6,20,557 8,98,142 8,31,931 7,88,692 10,03,716 10,90,618 11,77,568 12,50,601 13,06,790 12,80,768 13,50,518 12,64,186 14,97,498 16,05,281 19,21,826 24,73,327 26,73,645 22,91,201 20,39,686 18,83,203 10,26,213 11,50,578	35,200 3,02,187 4,31,198 3,00,327 3,78,573 4,81,784 5,62,3407 5,68,233 1,38,340 6,46,847 5,78,340 6,02,280 6,27,260 6,14,763 6,48,240 6,0810 7,70,535 9,22,477 11,82,796 12,88,678 11,02,889 9,50,979 9,04,229 9,24,582 6,48,278	0·50 3·81 5·17 4·54 4·55 5·82 6·26 6·25 6·50 6·55 6·50 7·70 8·25 9·74 12·10 13 28 11·20 9·80 9 0.9	+10,500 +56,602 -15,147 +29,270 +65,712 -24,458 -56,014 -81,000 -10,327 -1,41,400 -1,02,821 -1,21,828 -1,70,009 -2,28,816 -2,53,609 -2,14,909 -2,32,127 -3,37,779 -5,37,246 -6,30,630 -5,01,205 -4,03,900 -3,45,678 -3,59,338 +5,95,575	45,700 3,58,879 4,15,961 4,28,597 4,44,286 4,57,323 4,67,483 4,81,173 1,19,022 5,05,447 4,91,124 4,97,468 5,05,432 4,44,604 4,19,433 3,53,2801 5,38,408 6,45,550 6,45,550 6,40,042 5,77,589 5,68,561 5,58,561 5,58,561 5,58,561	0.65 4.52 4.97 4.87 5.20 5.34 1.32 4.50 5.37 4.50 2.78 4.50 2.78 6.65 6.07 6.65 6.01 5.82 5.68	33 78 113 105 100 127 138 146 170 152 158 165 162 171 110 180 203 241 310 287 256 227 256 224 236 241	52-00 52

(y) Southern Punjab Railway (Sutlej Valley Extension) (5' 6" gauge)—

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay, in cluding suspense, to end of each year, i.e, outlay on (i) lines open an (ii) line partly or wholly under construction.	Gross carmings.	റ Not carnings.	Percentage of not carnings on total capital outlay given in column (3).	Rebate from North Western Railway (+) or share of surplus profits payable to the Secretary of State in England (—).	\	Percentage of total income con total capital outlay given in clolumn (3).	S Earnings per mile per week.	Proportion of expenses to earnings.	Gain on exchange in respect of the Company's tentitanoss ith 5 of whiten has been paid to the Scretary of State in England as there of surplus profits.
1910	Mules. 209-46 208-19 208-19 208-19 208-19 208-19 208-19 208-19 208-19 208-19 208-19 208-19 208-19 208-19 208-19 208-19	Rs. *1,54,94,559 1,52,17,748 1,52,28,474 1,52,28,175 1,52,79,393 1,52,98,482 1,52,63,653 1,53,12,352 1,53,11,130 1,53,11,130 1,53,11,130 1,53,11,130 1,53,11,130 1,53,11,130 1,53,11,130 1,53,11,130 1,53,11,130 1,53,11,130 1,53,11,130 1,53,11,130 1,53,11,130 1,53,11,130 1,53,11,130 1,53,11,130 1,53,11,130 1,53,11,130 1,53,14,040 1,53,56,099 1,53,74,096	Rs. 2,89,668 5,06,486 5,17,652 1,30,630 6,77,949 6,00,181 6,40,704 5,76,870 3,16,818 124 5,25,670 7,20,126 8,64,335 12,15,435 12,15,435 12,15,435 12,15,435 19,60,101 13,01,417	Rs. 1,39,041 2,71,914 2,48,473 62,702 3,25,415 2,88,087 3,07,566 2,76,961 1,52,073 59 2,62,321 3,45,661 4,14,881 5,83,409 7,28,104 9,40,848 6,24,680	0.90 1.79 1.63 0.41 2.13 1.88 2.01 1.81 0.99 1.65 2.25 2.70 3.81 4.75	Rs. +1,85,209 +4,03,911 +4,39,385 +1,08,963 +3,08,963 +3,78,208 +4,10,268 +4,10,268 +5,36,587 +6,89,000 +6,89,000 +6,89,000 +6,89,000 +4,36,679 +3,43,339 +2,74,119 +1,05,639 +17,783(a) +73,910(b) +3,270(a) +3,95,038	Rs. 3,24,250 6,77,825 6,87,828 1,71,665 6,86,188 6,87,620 6,85,774 6,87,169 6,88,669 6,88,669 6,89,013 6,89,000 6,89,000 6,89,000 6,89,000 6,89,000 6,89,000 6,89,000 6,89,000	2·14 4·44 4·52 1·13 4·49 4·49 4·50 4·50 4·50 4·50 4·50 4·50 4·50 4·50	Rs. 54 48 48 48 65 59 53 49 80 109 77 110 137 177	52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00 52 · 00	Ra

^{*} Includes Rs. 3,24,250 adjusted in 1911.

⁽a) For the ½ year ended 30th September.

⁽b) For the \(\frac{1}{2} \) year ended 30th ceptember.

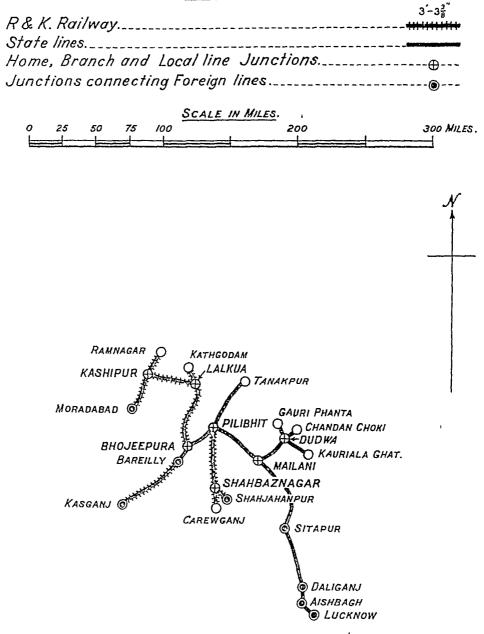
(b) For the \(\frac{1}{2} \) year ended 31st March. This includes gain on exchange also as it can not be worked out separately.

Note.—(i) The figures in column 7 from 1st July 1917 to 25th November 1925 represent interest at 4\(\frac{1}{2} \) per cent. on the rupes capital outlay paid to the company as compensation for dismantling the line for military purposes.

(ii) From 1929-30 the figures are included in the statistics of working of the North Western Railway (5' 6' gauge).

R.& K. RAILWAY SYSTEM.

REFERENCES.



13. ROHILKUND AND KUMAON HAILWAY SYSTEM.

Chairman and Managing Director.—Sir Henry P. Burt, K.C.I.E., C.B.E. Director and Secretary.—Lt.-Col. W. R. Izat, D.S.O., R.E. Office.—237, Gresham House, Old Broad Street, London, E. C. 2. Date of registration of the Company.—6th October 1882.

Lines comprised in the system—The Rohilkund and Kumaon railway system is made up of—

		-	•			_	T			
(a) Robilkund and Kumaon railway (3' 3½" gauge) (b) Lucknow-Bareilly railway (3' 3½" gauge)	:	:	•	•	•	•	• •	•	•	Den line, Miles, 258.72 312.06 570.78
Dunning names									-	
Running powers—										
Home line over foreign line—										
Over Ramganga bridge, between Bareilly and Bashar Oudh and Rohilkund Section. Over Ramganga bridge, between Dalpaspur and Mora Oudh and Robilkund Section.							or passe and g trains	eboo	{	0.52
										0.92
Foreign line over home line-										
Bengal and North-Western railway, Daliganj to Aishb	aoh.	for no	sseno	eran	d good	a troi	ne			3.40
(a) Rohilkund and Kumaon railway (3' 33" gauge)—		[- 5			•	•	0.40

Progress in opening—

Section	ns of	raily	vay.					Date of	Miles.	Total.	Grand total
		1						opening.	3	4	5
Muin line— Bhojeepura to Kathgodam							•	12-10-84	20 85	53.92	
Extensions— Kashganj extension— Bareilly to Soron Soron to Kashganj					•			29 1-06 4-I 85	54 95 9·00	40.07	
Ramnagar extension— Moradabad to Got Got to Kashipur Kashipur to Ramnagar .				•		:		10 5-08 11-1-08 1-4-07	4 19 26.86 17.14	63 95	
Kashipur extension— Lalkua to Kashipur							٠	15-12-07	36.00	48·19	
Shahjahanpur extension— Pilibhit to Bishalpur Bishalpur to Carewganj Shahbaznagar to Shahjahar		•	:	:		<i>:</i>	:	24-2-11 13 1-12 18-3-16	23·14 31·12 2·40	50.66	
			Gr	RAND T	LATO				••	••	258•7

Details of construction—

Permanent-way.—The permanent-way consists of 41½ and 50-lb. steel rails on sâl, and deodar sleepers. The lines from Lalkua to Ramnagar, Moradabad to Kashipur and Pilibhit to Carewganj are laid with 41½-lb. steel rails on sâl and deodar sleepers.

Ballast.—The ballast consists of shingle.

Fencing.—The line is partially fenced.

Curves.—There are no curves with a radius of less than 716 feet.

Gradients.—The ruling gradient between Bhojeepura and Kathgodam is 1 in 280, except near the hills where it is 1 in 70; between Bareilly and Kashganj, 1 in 400; between Moradabad and Ramnagar, 1 in 400 except near the hills where it is 1 in 125; between Lalkua and Kashipur, 1 in 200, except for a short distance near Lalkua where it is 1 in 100; and between Pilibhit and Carewganj, 1 in 400.

Contracts-

Dated the 12th October 1882 (called the original contract), between the Secretary of State and the Rohsl-kund and Kumaon Railway Company, as to the construction, maintenance, management and working of the railway from Bhojeepura to Kathgodam.

Dated the 8th September 1890 (called the principal contract), between the Secretary of State and the Rohilkund and Kumaon Railway Company, as to the working of the Company's line and the construction, maintenance, management and working of certain State lines.

Dated the 31st December 1892 (supplemental to the contract of 1890 and called the capital advance contract), between the Secretary of State and the Rohilkund and Kumaon Railway Company, for the advance of capital for the State line and as to debentures.

Dated the 5th February 1901 (supplemental to the contracts of 1882, 1890 and 1892), between the Secretary of State and the Robilkund and Kumaon Railway Company, prolonging and continuing the contract of 1890, subject to certain modifications thereof and of the contracts of 1882 and 1892.

13. ROHILKUND AND KUMAON RAILWAY SYSTEM-conta.

(a) Rohilkund and Kumaon railway (3' 3\frac{3}{8}" gauge)—contd.

Contracts-concld.

- Dated the 24th April 1903 (supplemental to the contracts of 1882 and 1890), between the Secretary of State and the Robilkund and Kumaon Railway Company, as to the adoption of 1s. 4d. per rupee as the "prescribed" rate of exchange. [Cancelled as from the 1st October 1921 by the contract of 23rd November 1923.]
- Dated the 15th July 1904 (supplemental to the contracts of 1882, 1890, 1901 and 1903), between the Secretary of State and the Robilkund and Kumaon Railway Company, as to the construction, maintenance, management and working of certain Branch railways and the purchase of existing Branch lines.
- Dated the 24th March 1909 (supplemental to, and in modification of, the contracts of 1882, 1890, 1892, 1901, 1903, 1904 and 1906), between the Secretary of State and the Robilkund and Kumaon Railway Company, as to the raising of capital for the purposes both of the Company's lines and of the Lucknow-Bareilly railway, and for the construction, maintenance, management and working of the Pilibhit-Barmdeo railway, extensions of the Dudhwa branch with a permanent bridge over the Sarda river, and the Pilibhit-Shahjahanpur railway.
- Dated the 3rd July 1914 (supplemental to the contracts of 1882, 1890, 1892, 1901, 1903, 1904, 1906 and 1909), between the Secretary of State and the Rohilkund and Kumaon Railway Company, as to the adoption of the Government financial year for the preparation of the accounts.
- Dated the 23rd November 1923 (supplemental to the above quoted contracts), between the Secretary of State and the Rohilkund and Kumaon Railway Company, regarding the addition to be made to the purchase price of the main line in the event of its being purchased in 1932, determination of the Powayan Steam Tramway contracts revision of the rates of exchange and repayment to the company of capital expenditure incurred by them for Lucknow-Bareilly railway and company's branch lines after 31st December 1912 otherwise than out of the proceeds of the issue of joint debenture stock. (Rate of exchange further revised, vide India Office letter No. F.-6622/28, dated 24th October 1928.)
- Dated the 21st February 1929 (supplemental to the above contracts), between the Secretary of State and the Rohilkund and Kumaon Railway Company, regarding construction and working of the new extensions of the Railways now worked by the Rohilkund and Kumaon Railway Company.
- Dated the 20th April 1931 (supplemental to the above contracts) between the Secretary of State and the Rohilkund and Kumaon Railway Company, regarding rate of exchange with effect from 1st October 1928.
- Dated the 8th December 1932 (supplemental to, and in modification of, the above noted contracts), between the Secretary of State and the Rohilkund and Kamaon Railway Company, regarding the terms for extended option of purchase of the Rohilkund and Kumaon Railway.
- Dated the 9th October 1936 (supplemental to the contracts of 1882 and 1890 and to all other contracts supplemental thereto) between the Secretary of State and the Rohilkund and Kumaon Railway Company, regarding division of earnings and net earnings on the termination of contracts of 1882 and 1890.
- Dated the 15th January 1937 (supplemental to the above noted contracts) between the Secretary of State and the Rohilkund and Kumaon Railway Company, in connection with the amount of rent payable by the Postal Department of the Government of India for buildings provided for their use by the Rohilkund and Kumaon Railway Company.
- Main provisions of contracts-
 - (i) Land.—Land for the Company's railway constructed in pursuance of the original contract was provided by the Government free of cost to the Company, subject to the condition that the Company pays, on demand, to Government the cost price of land purchased by Government for the purposes of the Company's railway. Land for the railway from Gola Gokaran Nath to Pilibhit, and for all the other State lines provided by the Government after the 1st January 1891 is charged to capital subsequent to the date of the principal contract. Land for Branch railways and Branch line works is provided free, except and excluding land required for quarrying ballast, brick-fields or kindred purposes. Land for new extensions constructed or to be constructed between 1st April 1928 and 31st December 1932 will be provided free of cost to the Company and all the provisions regarding land for main line, State railways or the Branch lines apply as well to the land supplied for new extensions referred to above.
 - (ii) Government aid.—Government guaranteed interest at 4 per cent. per annum in sterling on the capital up to £200,000 expended on the Company's original railway until its opening throughout for public traffic but for no longer than and including 1st January 1885; thereafter a subsidy of Rs. 20,000 half-yearly for ten years from the date of opening, which ceased on the 31st December 1894.
 - In the case of the *Lucknow-Bareilly* railway the Government guarantee the principal and interest in respect of debentures for the nominal amount of £1,47,000 issued by the Company in order to raise the sum of £160,000 (the sum actually realised being £160,837).

(Note.—These debentures were paid off from advances by the Secretary of State in England as follows:—

£40,000 on 1st July 1911. £32,000 on 1st July 1915. £75,000 on 1st July 1918).

13. ROHILKUND AND KUMAON RAILWAY SYSTEM—contd.

(a) Rohilkund and Kumaon railway (3' 33" gauge)—contd.

Main provisions of contracts-contd.

- The Company reimburses the Government any amount by which the interest payable under the guarantee may exceed Rs. 96,000 in any one year.
- The capital expenditure on L. B. railway was until 1909 met by the State. Thereafter under the contract of 1909 funds for capital works on both the Company's and State Section were raised by the Company in the Shape of Debentures on the Joint Security of the interests of both in the system. The State portion of this Joint Debenture Stock having proved insufficient the Secretary of State made an advance of £1,46,000 in 1923 and it has since been arranged (vide India Office letter No. F. 7899/29, dated 7th January 1930) that the capital open line expenditure on the Lucknow-Bareilly railway will, with effect from 1st October 1929, be financed by the Secretary of State in India and England respectively.
- All sums advanced by the Government after the 31st December 1900 bear interest at the rate of $3\frac{1}{2}$ per cent. per annum, except the sum of £1,46,000 advanced by the Secretary of State in 1923 and the amount of Rs. 40,802 expended by the Company on open line capital works from 1st October 1929 to 31st December 1929 and repaid by Government which bear interest at $5\frac{1}{2}$ per cent. The amounts advanced on and from 1st January 1930 will bear interest at 6 per cent per annum (vide India Office letter No. F. 1650/30 of 17th March 1930).
- All moneys required for the construction and equipment with rolling stock, plant and machinery of new extensions constructed or to be constructed between 1st April 1928 and 31st December 1932 are payable to the Secretary of State. A separate capital account is to be maintained for it.
- (iii) Terms of working.—The Lucknow-Bareilly railway is worked in conjunction with the Company's own line, a joint account of working expenses being kept. Joint working expenses account includes—
 - (1) any item of capital expenditure not exceeding Rs. 1,000 classed as "minor work" subject to a maximum charge on such account of Rs. 15 per mile of railway open per half-year; and
 - (2) a payment to Government of Rs. 20 per mile of railway open to traffic per half-year for audit and supervision.

The joint working expenses of the open system are divided between-

- (a) the Company's original line and "the Additional Main Line Works,"
- (b) the Lucknow-Bareilly railway and "the State Line Works," and
- (c) "the Branch Railways" and "the Branch Line Works,"
- (d) the new extensions constructed or to be constructed between 1st April 1928 and 31st December 1932,

in proportion to the respective gross earnings of those three classes.

- (iv) Distribution of profits.—The earnings of the Company's original line and "the Additional Main Line Works" after payment of all working expenses, are applied in the following order:—
 - (a) in payment of contribution to Provident Fund contingent on net earnings,
 - (b) in payment of interest on the Company's Main Line Stock (being part of the Joint Debenture Stock),
 - (c) in payment of interest on borrowed capital, and
 - (d) in payment of interest at 6 per cent. per annum on the bonâ fide paid up share capital of the Company.

The surplus is divided equally between the Government and the Company.

The net earnings of "the Branch Railways" and of "the Branch Line Works" belong absolutely to the Company, without any right of the Secretary of State to participate therein, subject only to the payment thereout of contribution to Provident Fund contingent on net earnings and interest on the Company's Branch Line Stock (being part of the Joint Debenture Stock).

The net earnings of the Lucknow-Bareilly railway and "the State Works", i.e., of the undertaking are applied in the following order:—

- (a) in payment of contribution to Provident Fund contingent on net earnings,
- (b) in payment of the interest at 4 per cent. per annum on the State Stock (being part of the Joint Debenture Stock), except interest on such portion of the State Stock as may for the time being be appropriated for lines under construction, which latter is charged to capital till the close of the half year next after the opening of lines to traffic,
- (c) in payment of the interest on the debentures of £147,000 issued by the Company in 1890 and of interest at 4 per cent. per annum on any further capital supplied by the Company or advanced by the Government for the purposes of the undertaking (3½ per cent. per annum on Government advances subsequent to the 31st December 1900),
- (d) in payment to the Government of interest at 4 per cent. per annum on the value at cost price of the railways, rolling stock plant, machinery and land handed over to or retained by the Company on the 1st January 1891 (standing to debit of Part I of the Capital Account), and

13. ROHILKUND AND KUMAON RAILWAY SYSTEM-contd.

(a) Rohlikund and Kumaon railway (3' 38" gauge)-contd.

Main provisions of contracts-contd.

- (c) the residue is divided between the Government and the Company in the ratio of their respective shares of capital in the undertaking.
- [Note 1.—The State Stock (part of Joint Debenture Stock), excluding and except so much of it as is appropriated or the construction of the Pilibhit-Barmdeo railway, does not participate in profits either as Government capital or as Company's capital.]
- [Note 2.—The amount advanced by the Secretary of State to pay off debentures for £147,000, vide (ii) above and note in connection therewith does not affect the capital of either the Secretary of State or the Company for the purposes of division of surplus profits of the Lucknow-Barcilly railway.]

The net earnings of the new extensions constructed or to be constructed between 1st April 1928 and 31st December 1932 belong wholly to the Secretary of State.

(v) Rates and farcs -

Maxima:-

Company's lines :-

Passengers :--

lst class, 3 annas per mile.

Lower class, 4½ pies per mile.

Lugpage, 2 pies per

maund per mile.

Goods:--

Edible grains, 3rd pie per maund per mile.

[Note.—In Railway Boand's letter No. 842-T.16, dated the 25th May 1923, 0.38
pic per maund per mile was sanctioned as the maximum rate.]

Other goods, 2 pies per maund per mile. Parcels and live stock at rate not exceeding 50 per cent. over rates on the East Indian railway.

On the Branch railways food grains and salt are to be carried at rates, not less than the minimum for goods, as the Government may fix; and fuel for distances exceeding 100 miles on the Branch railways, or on any part thereof together with any part of the other railways belonging to or worked by the Company at a rate not exceeding ath pie per maund per mile.

Lucknow-Bareilly railway and branches:-

- The Government to authorise, from time to time, maximum and minimum rates, and to prescribe the classification of passengers and goods, as well as the extent to which within the maxima and minima, the Company may vary such rates.
- For traffic between the joint line (Bareilly-Bhojeepura) and the Company's own line, the rates in force on the latter may be levied, except in the case of food grains and salt, and of fuel carried for distances exceeding 100 miles; for the former the rates will not be less than the minimum for goods fixed by Government, and for the latter the rates will not exceed ith pie per maund per mile.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails.—On the Company's original line, to be conveyed on payment of Rs. 5,000 half-yearly.
 - On the extensions of the Company's original line (Additional Main Line Works), the Company is to receive a reasonable remuneration in lieu of the sum of Rs. 5.000 above noted.
 - On the Lucknow-Bareilly railway and branches, on the same general conditions as are for the time being in force on other 3' 3\frac{3}{6}'' gauge State railways, and at rates to be approved by the Government.
 - (b) Troops, police, high Government officials and Government stores.
 - On the Company's lines, at the ordinary tariff rates charged to the public.
 - On the Lucknow-Bareilly railway and branches, on the same general conditions as are for the time being in force on other 3' 3\frac{3}{6}" gauge State railways, and at rates to be approved by the Government.
 - (c) Government bullion and coin, and the persons in charge thereof-
 - On the Company's lines at special rates to be from time to time agreed upon between the Government and the Company.
 - On the Lucknow-Bareilly railway and branches, at special rates to be approved by the Government.

13. ROHILKUND AND KUMAON RAILWAY SYSTEM-contd.

(a) Rohilkund and Kumaon railway (3' 33" gauge)—contd.

Main provisions of contracts-contd.

(vii) Power of the Government to determine contract-

Contract of 1882: The Government may terminate the contract at the end of the 50th year, i.e., on the 31st December 1932, by giving 12 months' notice. If the contract terminate by such notice, or by the efflux of time, the Government are to pay to the Company 25 times the average net earnings less the Government share of surplus profits, during the 5 years immediately preceding either the date of the termination or (at the option of the Government) the 31st December 1912.

- Note.—(1) The cost of making good any shortcomings which render the value of the line not commensurate with the capital expended may be deducted from the purchase price payable.
 - (2) On the determination of the existing contracts, whether in 1932 or 1981, an addition shall be made to the purchase price of the Company's main line, as determined by the contracts, of the equivalent of the amount by which the open line capital expenditure incurred between the 1st January 1913 and the 31st December 1932 shall exceed Rs. 2,00,000 (Secretary of State's Despatch No. 36-Ry., dated the 22nd December 1921).
- The Government may also determine the contract at any time on 6 months' notice (called the "Notice of Determination") if the Company fail to observe its obligations, on payment of the value of the permarent-way, stock and plant, or may call upon the Company to accept the same in lieu of payment, in which latter case the Company must remove its property within 9 months from the termination of the contract, otherwise it becomes the property of the Government.
- Contract of 1890: If the original contract with the Company, dated the 12th October 1882 terminate for any reason, then the contract for the working of the Lucknow-Bareilly railway ipso facto terminates at the same time. The Government may terminate the contract on the 31st December 1932, or on the 31st December in any subsequent year, by giving 12 months' notice. The Government may also determine the contract on 6 months' notice (called the "Notice of Determination") if the Company fail to observe its obligations.
- On the determination of the contract the Government will resume possession of the State railway, and at their option will either repay the capital that has been received from the Company for the purposes of the undertaking, or will take over the liability of the Company in respect of such capital. If the capital is repaid, the payment may, at the option of the Government, be made either in England or in India.
- Contract of 1904: If the original contract with the Company, dated the 12th October 1882, terminate cither by "Notice of Purchase" or by the efflux of time, then the contract of 1904 terminates at the same time, in which case the Government are to pay to the Company 25 times the average net earnings of the Lalkua-Kashipur-Moradabad-Ramnagar branches during the 5 years immediately preceding the termination. provided such sum does not exceed by more than 20 per cent., nor be less than, the capital expenditure on those railways.
- [Note 1.—The word "the capital expenditure on those railways" as used above refer to the capital expenditure in rupees as shown in the capital account of the company in India after all such expenditure incurred in England has been incorporated therein as provided by the terms of clause 30 of 1904 contract as modified from time to time.
- [Note 2.--The cost of making good any shortcomings which render the value of the line not commensurate with the capital expended may be deducted from the purchase price payable.]
- The Government may also determine the contract at any time on 6 months' notice (called the "Notice of Determination") if the Company fail to observe its obligations, on payment of the value of the permanent-way, stock and plant, or may call upon the Company to accept the same in lieu of payment, in which latter case the Company must remove its property within 9 months from the termination of the contract, otherwise it becomes the property of the Government.
- Contract of 1909: By clause 18 of the contract of the 24th March 1909, if either the contract of 1890 be determined from any clause or that of 1909 be determined by "Notice of Purchase" as far as each relates to "the State lines," but not further or otherwise, then the other of the two contracts ipso facto terminates at the same time.
- By clause 19 of the contract of the 24th March 1909, that contract so far as it relates to "the Scheduled Company's Works" (the Pilibhit-Shahjahanpur line), in common with the contract of 1904, terminates ipso facto with the determination by "Notice of Purchase" of the Company's original contract of the 12th October 1882, the Government, however, only having the power to purchase "the Company's original line", "the Branch railways" and "the Scheduled Company's Works" collectively, not any of them separately from the other or others of them.
- By clause 20 of the contract of the 24th March 1909-
 - (a) the contract of 1909 so far as relates to "the Additional Main Line Works" terminates ipso facto with the determination by "Notice of Determination" of the Company's original contract of the 12th October 1882,
 - (b) the contract of 1909 so far as it relates to "the Branch Line Works" terminates ipso facto with the determination by "Notice of Determination" of the contract of 1904, except as noted above against clauses 18 and 20 of the contract of 1909 and also except as provided for in clause 77 of the contract of 1890, the serveral powers 1 the Government to determine by

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13. ROHILKUND AND KUMAON RAILWAY SYSTEM--contd.

(a) Rohilkund and Kumaon railway (3' 33" gauge)-contd.

Main provisions of contracts-concld.

"Notice of Determination" the contracts respectively of 1882, 1890 and 1904, and also that of 1909 so far as they relate to "the State Line Works" to "the Additional Main Line Works" and to "the Branch Line Works", remain separate and unaffected, and are exercisable as to any one or parts thereof independently and without prejudice as to the continuance of the others or part thereof, in the event of the Company failing to observe its obligations contained in the contract or part of the contract which it is sought to determine: provided that the powers of the Government to determine, by "Notice of Determination", the contract of 1909 so far as it relates to "the Additional Main Line Works" and to "the Branch Line Works" are exercisable separately in respect of any line or branch forming an independent part of such works, if the Company fail to observe its obligations in regard thereto.

Upon the determination of the contract of 1904 or of 1909 so far as it relates to any of the Branch Lines or Branch Line Works referred to therein the Secretary of State will repay to the Company all moneys provided by the Company for Capital expenditure on the Branch Line or Works after 31st December 1912 otherwise than out of the proceeds of the Joint Debenture Stock under the contract of 1909.

Contract of 1929.—The Contract terminates as to all or any of the extensions constructed thereunder on 31st December 1932 or on the same day in any subsequent year by at least six calendar months' notice being given by either party. Upon the determination of this contract, the company shall give to the Secretary of State possession of all or any of the extensions as aforesaid with all buildings erected on such extension or anywise belonging thereto and shall also deliver to the Secretary of State all rolling stock, movable machinery or other property belonging or appropriated to such extension.

Contract of 1932.—(1) The Secretary of State shall have the option of purchasing the company's railway on the 31st December 1937 or the 31st December 1942 on giving to the Company 12 months' previous notice in writing of this intention in that behalf.

Clauses 3 and 4 of the deed of 1932.

- If the option to purchase the Company's railways in either of the year 1937 or 1942 is exercised the price payable is to be :--
- (a) In respect of the Company's original line the equivalent in sterling of the sum of 64,00,000 rupees (Subject to any adjustment that may be required with respect to railway police charges for the years 1907-12) calculated at 1s. 6d. the rupee it being understood that no variation in this rate shall be admissible.
- (b) In respect of the extensions a sum equal to twenty-five times the average yearly net earnings of the lines during the five years ending on the 31st December 1932. Subject to a maximum payment of the capital expenditure incurred on such lines up to that date with the sanction of the Secretary of State plus a premium of 20 per cent, and a minimum payment of the capital expenditure so incurred such sums being calculated in the manner prescribed in clause 57 of the Deed of the 15th July 1904 as construed in the award of Sir George Stapylton Barnes dated the 19th day of May 1930 and being convertible at the fixed rate of 1s. 6d. the rupee and no variation of this rate being admissible.
- (c) A sum equal to the amount by which the capital expenditure incurred on the original line with the sanction of the Secretary of State between the end of year 1912 and the end of year 1932 shall exceed 2,00,000 rupees, such sum to be converted from rupees into sterling at the fixed rate of 1s. 6d. the rupee.
- Note.—The aggregate of the sums mentioned in sub-clauses (a), (b) and (c) will be subject to the deductions referred to in clause 28 of the Deed of the 24th day of March 1909 and clause 14 of the deed of the 23rd day of November 1923 with regard to the purchase or other moneys mentioned in the same clauses.
- 4. In the event of the Secretary of State exercising his option of purchase either in the year 1937 or in the year 1942 he will repay to the company in addition the actual capital expenditure in sterling incurred by the company with his sanction both on the original line and on the extensions between the year 1932 and the year 1937 or 1942 as the case may be so far as such moneys shall not have been provided or repaid out of the proceeds of issues of Joint Debenture Stock under the contract of the 24th day of March 1909.
- (i) From 1st day of February 1933; the company's share of the residue of net earnings as calculated under the provisions of the relevant principal deeds payable to the company for such working shall be reduced

13. ROHILKUND AND KUMAON RAILWAY SYSTEM-contd.

(a) Rohilkund and Kumaon railway (3' 33" gauge)—concld.

Main provisions of contracts and agreement-concld.

- by 10 per cent, but otherwise such working shall be on the same terms as under the principal Deeds relating thereto.
- (ii) The company shall continue the working of the State railways until the end of the year 1937 or if the Company's Railways be not purchased in the year 1937, until the end of the year 1942, but the company shall have no power to continue the working of the State Railways after the end of the year 1942 unless a further agreement in relation thereto is come to by the parties concerned.
 - (viii) Power of the Company to surrender contract-Nil.
 - (ix) Term of contract.—Those of 1882, 1904 and 1909, up to the 31st December 1981; those of 1890 and 1929 up to the 31st December 1932.

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to en: of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings	Net earnings.	Percentage of det carnings on total capital outlay given in column (3).	Share of net earnings pid over to the Secy. of State.	Earningr per mile por week	Pro- portion of expenses to earn- ings	Rемарк о.
1 ,	2	3	4	5	ů	7	8	9	10
1884 1885	Miles. 55.00 55.00	Rs. 19,40,266 21,71,124	Rs. 36,543 2,38,572	18s 1,733 80,153	R3, 0.09 3.69	.:	Rs. 51 68	Rs. 95·26 66·40	Net earnings from 1880 to 1894 in-
1886 1887 1888 1889	55·00 55·00 55·00 55·00 55·00	22,52,962 22,91,619 23,40,100 23,96,624 21,17,052	3,00,191 3,19,274 3,34,092 3,72,270 3,11,834	1,23,832 1,16,800 1,42,120 1,60,135 1,51,003	5·50 5·10 6·07 6·68 6·25	 4,419 7,954	86 92 96 107 90	58·75 63·42 57·46 56·98 52·04	clude annual subsidy of Rs. 40,000.
1891 1892 1893 1894	53·92 53·92 53·92 53·92 53·92	20,49,458 20,58,575 20,82,280 20,80,440 20,78,251	3,85,081 4,33,648 4,25,909 4,59,313 4,01,504	1,60,081 1,97,780 1,83,180 2,15,191 1,52,209	7·81 9·61 8·80 10·31 7·32	1,286 15,651 6,669 13,269	112 127 124 134 118	58·43 54·39 56·99 53·15 62 37	
1896 1897 1898 1899	53·92 53·92 53·92 53·92 53·92	20,79,863 21,20,428 21,42,552 21,48,313 21,53,125	4,26,905 4,23,720 4,62,308 4,65,623 4,37,572	1,53,821 1,72,319 2,20,785 2,24,020 2,28,048	7·40 8·13 10·30 10·89 10·59	4,450 15,284 23,900 20,439	125 124 135 136 128	63 96 59·83 52·24 49 74 47 88	
1901	53 · 92 53 · 92 53 · 92 53 · 92 53 · 92	22,09,123 23,36,911 25,89,790 43,55,575 93,34,589	3,84,314 4,10,626 4,13,147 4,18,787 4,40,664	2,09,896 2,18,317 2,30,405 2,24,403 1,54,126	9·50 9·34 8·51 5·15 1·65	14,769 18,356 26,268 26,981	112 120 121 122 129	45·38 46·83 46·65 46·41 65·02	The decrease
1906	117·87 117·87 203·35 202·06 202·06 202·06 256·32 256·32 256·32 258·72 258·72 258·72 258·72 258·72 258·72 258·72 258·72 258·72 258·72 258·72 258·72 258·72 258·72 258·72 258·72	1,16,53,319 1,28,55,065 1,35,79,271 1,36,93,877 1,52,28,920 1,59,21,548 1,62,89,858 1,63,05,789 1,67,73,664 1,69,38,847 1,69,90,623 1,69,41,217 1,68,16,023 1,66,59,332 1,67,51,918 1,72,26,110 1,74,89,716 1,78,49,876 1,82,72,461 1,84,92,954 1,87,03,354 1,87,03,354 1,88,30,315 1,89,42,243	8,03,607 10,67,928 11,44,078 12,70,929 13,46,150 14,73,586 18,99,670 4,88,833 18,84,583 18,90,918 21,68,562 24,16,332 23,31,054 24,38,013 27,24,189 29,37,167 28,01,863 29,37,167 28,01,863 29,82,014 28,35,836 29,82,914	3,65,161 5,69,506 5,50,193 6,26,391 7,62,425 7,99,809 11,51,734 2,99,341 10,57,658 7,39,623 9,13,086 11,11,676 12,19,547 12,15,264 10,56,360 11,42,909 12,68,070 12,16,854 14,90,508 14,80,634 14,90,508 14,80,634 14,26,701 14,91,165	3·13 4·43 4·05 5·02 7·07 1·84 6·30 4·37 6·56 7·25 7·20 6·31 6·63 7·25 7·30 6·99 8·11 7·92 7·87	2,846 52,081 20,574 20,309 53,136 50,891 93,557 17,526 73,454 45,669 85,833 1,09,698 1,03,184 95,605 1,71,677 2,23,292 1,12,092 84,126 1,10,047 1,21,291 1,39,110	124 158 102 121 128 128 144 37 141 117 128 141 161 180 173 181 202 218 208 223 221 222 221	54·56 46·67 51·91 50·71 43·36 45·72 39·37 38·76 43·83 52·54 47·09 41·20 43·76 49·72 55·69 54·48 50·02 50·36 49·60 49·60 48·88	in net carrings of 1905 is due to the heavy outlay on relaying the main line.
1928-29 1929-30 1930-31 1931-32 1932-33 1933-34 1931-35 1935-36 1936-37	258·72 258·72 258·72 258·72 258·72 258·72 258·72 258·72 258·72	1,91,23,214 1,94,55,094 1,96,24,841 1,97,76,569 1,98,02,484 1,96,12,212 2,02,53,105 2,05,18,958 2,06,49,047	30,67,471 28,73,346 29,28,808 27,24,873 28,05,775 30,49,890 32,49,077 32,50,349 34,79,627	15,68,530 13,96,911 13,99,346 13,12,199 14,84,902 15,70,642 17,50,456 17,49,295 20,09,006	8·20 7·18 7·13 6·64 7·50 7·93 8·64 8·53 9·73	1,46,978 1,45,987 93,076 88,405 70,460 1,02,071 1,29,202 1,39,575 1,36,390	228 214 218 202 209 227 242 242 259	51·38 52·22 51·84 47·08 48·50 46·12 46·18 42·26	

13. ROHILKUND AND KUMAON RAILWAY SYSTEM-contd.

(b) Lucknow-Bareilly railway (3' 33" gauge)-

A 2' 6" gauge light railway of 36.86 miles, from Shahjahanpur via Powayan to Mailan, which was constructed by a subsidized company and maintained and worked as part of the system since 17th December 1900, was dismantled during the war and acquired by the State in 1920-21.

Progress in opening-

Section	s of railw	ay.				Date of opening.	Miles.	Total.	Grand total.
	1				···	2	3	4	5
Main line—									
Lucknow to Sitapur .						15-11-86	55.00		
Sitapur to Lakhimpur .						15-4-87	28.50		
Lakhimpur to Gola Gokaran	Nath		٠.			15-12-87	21 50		
Gola Gokaran Nath to Pilibh	nit .					1-4-91	57·55		ĺ
Pilibhit to Bhojeepura.					•	15-11-84	24.00		
Bhojeepura to Bareilly						12-10-84	12.00		
A								198-65	ĺ
Branches and extensions—							7.00		
Bareilly grain siding .	• .	•	•	•	٠	1-4-94	1.75		<u> </u>
Kaurialaghas extension—								1.75	
Mailani to Sarda						1-1-93	1		
Sarda to Sohela		•			.	10-3-93	30.78		Ì
Sohela to Sonaripur .					. [18-3-94	}		Ì
Sonaripur to Kaurialaghat				•	,	2-1-11	19.49		
Thandan Choki extension—								50-27	
Dudhwa to Chandan Choki					}	3 4 55	bs . 444		
Didna to changan chori	•	•	•	•		1-4-03	7.57		
auri Phanta extension—					}			7.57	
Dudhwa to Gauri Phanta					}	15-4-14	34.40		
trudition to Cault 1 Halling	•	•	•	•	.	10-4-14	14 · 49	71.40	
Barmdeo extension—					Ì			14.49	
Pilibhit to Barmdeo					1	15-5 12	38.53		
	- •		•	•		10-0 12	92.03	80.50	
					Ì	j		38.53	
ouble line—	Total	open	mileag	ge •	.]		[311 ·
Lucknow City to Aishbagh						31-10-25	1-16	1.16	

Details of construction-

Permanent-way.—The permanent-way consists of $41\frac{1}{2}$ -lb. and 50-lb. steel rails on sal sleepers.

Ballast.—The ballast consists of broken brick, kunkur and shingle.

Fencing.—The line is partially fenced.

Gurves.—There is only one curve with a radius of less than 1,000 feet.

Gradients.—The ruling gradient between Lucknow and Bareilly is 1 in 500, except near Lucknow and Bareilly, where it is 1 in 200; between Mailani and Kaurialaghat, 1 in 400 and between Dudhwa and Chandan Choki, 1 in 100.

Contracts— Main Provisions of contracts

As noted under Rohilkund and Kumaon railway (3' 3¾' gauge).

13. ROHILKUND AND KUMAON RAILWAY SYSTEM-concld.

(b) Lucknow-Bareilly railway (3' 38" gauge)—concld.

Statistics of working (Those for the periods prior to 1891 will be found in Appendix 38 to the Railway Administration Report for 1907)—

Note.—From the year 1936-37 the working expenses have been arrived at after taking into account the Appropriation to Depreciation Reserve Fund instead of actual expenditure on 'Replacement and Renewals' previously accounted for.

Year.	Miloago open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construc- tion.	Gross carnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Interest.	Company's share of surplus profits (based on terms of contract) altributable to each year.	Gain or loss to the State pertaining to each year.	Earn- ings por mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8	9	10	11
	Miles.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	Rs.	
1891 . 1892 . 1893 . 1894 .	198·38 198·33 222·05 231·17 231·17	79,17,846 81,66,804 83,89,362 85,03,158 87,22,466	4,95,068 6,82,836 7,28,878 9,72,269 8,25,934	1,72,145 2,74,691 2,73,541 3,94,240 3,13,116	2·17 3·36 3·26 4·59 3·59	2,72,055 3,07,651 3,26,770 3,45,323 3,56,556	10,636 3,495 24,180 15,834	$\begin{array}{c} -99,910 \\ -43,686 \\ -56,724 \\ +24,737 \\ -59,314 \end{array}$	56 66 67 88 74	65·23 59·79 62·47 59·45 62·09
1896 . 1897 . 1898 . 1899 .	231·17 231·17 231·17 231·17 231·17	89,63,620 93,02,715 94,90,476 94,97,485 99,21,432	8,27,599 8,27,371 10,34,088 12,72,160 12,53,801	3,02,071 3,35,776 5,00,200 6,33,355 6,51,957	3·37 3·61 5·27 6·67 6 57	3,48,885 3,61,550 3,64,852 3,65,537 3,73,097	13,415 11,570 68,058 1,25,640 1,34,915	-60,229 $-37,344$ $+67,290$ $+1,42,178$ $+1,43,945$	75 75 94 114 107	63·50 59·43 51·61 50·20 48·02
1901 1902 . 1903 . 1904 .	231·17 231·17 237·04 237·04 237·04	1,01,83,243 1,12,96,019 1,15,01,911 1,17,14,505 1,17,99,857	13,72,520 14,53,329 14,03,266 14,96,120 15,47,488	7,58,124 7,69,568 7,48,689 7,97,671 8,20,992	7·44 6·81 6·51 6·81 6·96	3,91,796 4,23,528 4,53,825 4,48,328 4,50,448	75,969 67,704 53,222 61,426 65,048	+2,90,559 +2,78,336 +2,41,642 +2,87,917 +3,05,496	123 132 126 133 138	44.76 47.05 46.65 46.68 46.95
1908 . 1907 . 1908 . 1909 .	2:.7 · 04 237 · 04 237 · 04 237 · 04 237 · 04	1,20,09,658 1,24,59,395 1,27,50,545 1,43,82,316 1,60,60,757	16,55,250 16,97,182 16,15,542 17,17,491 18,25,185	8,36,782 9,07,863 7,80,747 7,84,749 10,15,746	6.97 7.29 6.12 5.46 6.32	4,57,588 4,18,611 4,50,365 4,11,131 4,75,558	65,253 73,229 48,511 44,700 80,364	+3,13,942 $+4,16,023$ $+2,81,871$ $+3,28,918$ $+4,59,824$	148 150 131 159 148	49.46 46.56 51.67 54.31 46.38
1911 1912	257·57 296·32	1,72,02,079 1,83,53,912	19,40,488 22,67,846	10,44,604 13,67,532	6·07 7·45	5,07,263 5,66,069		$+4,62,621 \\ +6,80,430$	152 157	46·17 39·70
1st qr. of 1913. 1913-14 1914-15	296·32 298·02 312·51	1,87,59,97: 1,91,90,007 2,02,30,297	6,65,878 22,50,319 19,40,656	4,06,008 12,45,837 8,79,923	2·16 6·49 4·35	1,65,812 6,84,031 7,07,593	32,297 74,936 19,655	+2,07,899 +4,86,870 +1,52,675	42 148 119	39·03 44·64 54·66
1915-16 1916-17 1917-18 1618-49 1919-20 1920-21 1921-22 1922-23 1923-24 1923-24 1925-26 1926-27 1927-28 1928-29 1929-30 1930-31 1931-32 1932-33 1933-34 1935-36 1936-37	312·51 312·51 312·43 312·43 316·19 316·19 316·19 316·19 312·06 312·06 312·06 312·06 312·06 312·06 312·06 312·06 312·06 312·06 312·06 312·06	2,00,77,006 1,98,31,693 1,98,54,296 2,00,25,744 2,13,44,646 2,22,08,000 2,25,41,293 2,30,35,670 2,32,55,161 2,34,77,911 2,34,66,951 2,31,4110 2,41,89,490 2,42,57,442 2,43,24,812 2,44,54,095 2,45,69,423 2,46,48,299 2,48,30,844 2,51,49,677 2,54,43,1677	2),17,355 23,98,560 27,04,857 31,85,922 29,31,499 29,70,578 35,76,471 36,94,959 38,10 875 37,78,491 42,47,739 42,47,739 36,28,011 34,57,524 36,88,115 (a)36,37,127 37,86,37,127	10,15,377 13,90,059 15,02,723 15,62,314 13,15,519 13,81,725 16,10,982 15,58,177 16,26,655 18,35,598 19,04,018 10,26,144 21,54,217 19,09,464 17,67,972 17,16,214 16,43,456 18,78,846 19,80,102 (a)19,03,22t 21,24,088 20,56,281	5.05 7.01 7.57 7.81 6.16 6.22 7.15 7.20 6.99 7.82 8.12 9.01 7.89 7.06 6.72 7.66 8.03 8.03 8.03	7,39,732 7,21,831 7,31,984 7,47,338 6,72,194 7,22,838 8,67,876 9,58,533 9,12,888 8,93,125 8,94,856 9,01,041 9,05,978 9,22,741 9,39,246 9,56,304 9,56,304 9,56,304 9,44,592 9,40,990 9,39,974 9,34,149	1,36,162 1,66,412 1,32,281 1,12,638 1,06,184 96,062 1,18,784 1,17,267 1,29,987	+2,41,501 +5,80,704 +6,67,477 +7,06,335 +5,65,004 +5,71,374 +6,50,804 +6,05,314 +6,22,176 +8,19,990 +8,75,194 +10,81,827 +7,89,983 +8,10,103 +6,70,784 +5,91,090 +8,96,619 +9,18,243 (a)+8,33,144 +10,50,748 +9,53,214	233 262 231 222 224 213 220 227 224 233	49·02 49·29 49·07 51·02 52·70 52·47 47·38 46·31 47·67 43·90

^{*} From 1909 the figures in this column include outlay incurred from Joint Debenture Stock Funds.

⁽a) Excludes Rs. 93,739 on account of claim in connection with hire charges, etc., re-transferred from balance of "Net revenue" as per C.R.A.'s No. 130 Accts./33-34 dated the 20th July 1935.

Chairman and Managing Director.—Sir Ernest A. S. Bell, C.I.E. Offices.—91, Petty France, Westminster, S. W. 1.

Date of registration of the Company.-1890.

The lines formerly owned and worked by the Great Southern India and the Carnatic Railway Companies were amalgamated on the 1st July 1874, under the title of the South Indian Railway which on the 1st January 1891 was purchased by the State and handed over, together with the Villupuram-Guntakal State railway, for working as one undertaking, to a new company—the existing South Indian Railway Company. The portion of the railway from Dharmavaram to Guntakal was made over to the former Southern Mahratta railway in 1893.

With effect from the 1st January 1908 the Jalarpet-Mangalore section of the former Madras railway including the Tirupattur-Krishnagiri, Morappur-Dharmapuri and the Nilgiri railways was incorporated in the undertaking of the South Indian Railway Company, who, from the same date, relinquished and made over to the amalgamated Madras and Southern Mahratta Railway Company the 3' 3\frac{3}{8}" gauge lines from Katpadi to Dharmavaram and from Pakala to Gudur, and obtained running powers over the Madras-Bangalore section of the Madras and Southern Mahratta railway. The Shoranur-Cochin Indian State line was, on the same date, also transferred from the former Madras Railway Company to the South Indian Railway Company for working,

Lines comprised in the system-The South Indian railway avstem is made up of-

	Open line.	construction or sanctioned for construction,	Total
	Miles.	Miles.	Miles.
(a) South Indian radway (5' 6" gauge)	599.14	• •	599-14
(h) Shoranur-Cochin railway (5' 6" gauge)§	65 01		65.01
(c) South Indian railway (3' 3#" gauge)	1,506.46		1,506.46
(d) Nilgiri railway (3' 32" gauge)	28.06		28.96
(e) Peralam-Karaikkal railway (3' 3%" gauge)	14.65		14.65
(/) Podanur-Pollachi railway (3' 37" gauge)	$25 \cdot 04$		25.04
(g) Pondicherry railway (3' 33" gauge)	$7 \cdot 85$	••	7.85
(h) Tinnevelly-firuchendur railway (3' 33" gauge)	38.18	••	38.18
(1) Travancore railway (British section) (3'33" gauge).	50.33	• •	50.33
(1) Travancore railway (Indian State section) (3' 33" gauge)	97.64	٠,	87·64
(k) Morapur-Hosur railway (2' 6" gauge)	73.31		$73 \cdot 31$
(1) Tirupattur-Krishnagiri railway (2' 6" gauge)	$25 \cdot 38$	••	25.38
Total	 2,531 . 95		2,531.95

Running powers—

Home line over foreign line—

Madras to Bangalore, Madras and Southern Mahratta railway for passenger and goods trains.

219.00

Progress in opening

Sections of railway.	Date of opening.	Miles.	Total.	Grand Total
Main line—				
West outer signal at Jalarpet to Tirupattur	23-5-60	4.65	. [
Tirupattur to Salem	1-2-61	69.98		
Salem to Sankaridrug	1-12-61	23.68	ł	
Sankaridrug to Podanur	12-5-62	71.24	Į.	
t'odanur to Pattambi	14-4-62	64.97		
Pattambi to Kuttipuram	23-9-61	11.52	}	
Kuttipuram to Tirur	1-5-61	9.39	ļ	
Tirur to Kadalundi	12-3-61	16.31	}	
Kadalundi to Calicut	2-1-88	9.21	ì	:
Calicut to Badagara .	1-10-01	28.95		
Badagara to Tillicherry	1-5-02	13.50		
Tollicherry to Cannanore	20-5-03	13.00		
Cannanore to Azihkal	15-3-04	4.10		
Azihkal to Kanhangud	21-8-06	34.52		
Kanhangod to Kasarayod	1-10-06	14.22		
Kusaragod to Kumbla	17-11-06	7.62		
Kumbla to Mangalore	3-7-07	20.91		1
Mellu palaryam branch	3-1-01	20 01	417.77	l
Podanur to Coimbatore	1-2-73	3.78	311 11	ł "
Coimbatore to Mettupalaiyam	31-8-73	21.97		!
Palghat branch-	31-0-13	21.91	25.75	}
Ola rakkot to Palghat**	0.100	2.40	20-10	1
	2-1-88	2.40	2.40	,
Nilambur Branch	000=	77.00	2.40	ì
Shoranur to Angadipuram	3-2-27	17.39		l
Angadipuram to Vaniyambalam	3-8-27	17.06		1
Vaniyambalam to Nilambur Road	26-10-27	6.92		}
Salem to Mettur Dam (including the mileage of assisting siding from Mechori Road to Mettur Dam).	15-4-29	23.20	41·37 23·20	
Erode Branch-		1	Ì	l
	. 11-3-62	2.70	ł	1.
Trichic poly Fort to Karur	. 3-12-66	44.60	}	i
Karur to Kodumudi	1-7-67	16.84	1	l
Kodumudi to Frode	1-1-68	23.42	87.56*	1
Through Goods line from Commerford Block Station to Broat Gauge Bufferend in Trichy Goods Station.	d 1-4-31	†1·09	1.09	
GRAND TOTAL				1599-14

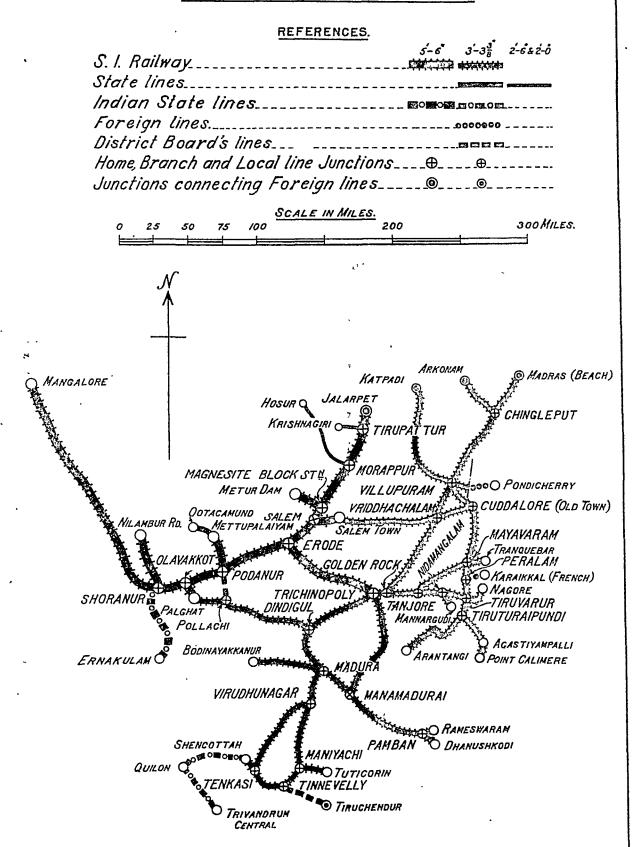
^{*}Originally constructed on the 5'-6' gauge but was converted to 3'-3\}" gauge, Trichinopoly Jn. to Karur on 1st July 1879, and Kurur to Erode on 16th December 1879. The whole section was reconverted into 5' 6" gauge on 26th September 1929.

†For goods traffic only.
**Converted into mixed gauge from 1st April 1932.

This excludes 1.97 miles of mixed gauge between Salem Junction and Salem Market which have been included in the M. G. Route

⁽Originally constructed on the 3'[3], gauges but was converted to 5'-6" gauge on 24th October 1934.

S. I. RAILWAY SYSTEM.



(a) South Indian Railway (5' 6" gauge)-concld.

Details of construction-

Permanent-way.—The rails are 76-lbs. and 80-lbs. bull-headed British standard 90-lbs. bull-headed, 75-lbs. double headed, 60-lbs. and 75 lbs. flat-footed B. S. 75 lbs. flat-bottomed and British Standard 75 lbs. R and 90 lbs. R flat-bottomed steel rails. The sleepers are cast iron pots, irumbogam, sâl, irool and jarrah wood, and steel transverse.

Ballast.—The line is ballasted with stone and sand, chiefly the former—except on the Salem-Mettur Dam Section which is ballasted with mooram and gravel.

Fencing.—The line is fenced throughout. The line Shoranur to Nilambur Road is unfenced except at station yards, whereas in Salem-Mettur Dam, both the line and station yards are unfenced

Curves.—The sharpest curve is of 1,584 feet radius except in Shoranur-Nilambur section, and Salem-Mettur Dam Section where it is 800' and 955' radius respectively.

Gradients.—The ruling gradient of the greater part of the line is about 1 in 100 except on Bommidi Ghat where it is 1 in 74 with a 1 in 70 banking and on a length between Kalipatti Road and Sankaridrug where it is 1 in 95; between Podanur and Madukarai on Podanur—Olavakkot Section where it is 1 in 84; on the Walayar ghat where it is 1 in 66 with a 1 in 62 banking; on a small length between Trikarpur and Charvattur on the Azhikkal—Mangalore Section where it is 1 in 90; between Karur and Murthipalayam on the Trichinopoly Erode Branch where it is 1 in 90; on the Padanur—Mettupalaiyam and Shoranur—Nilambur Branches where it is 1 in 80 on the Salem Metur Dam Branch where the ruling gradient is 1 in 66.6.

Contract-

Up to and including the 31st December 1907 the line formed an integral part of the former Madras railway. With effect from the 1st January 1908 it was, in terms of the contract of the 2nd March 1909 between the Secretary of State and the South Indian Railway Company, made over to the Company to be worked and maintained, as an integral part of the undertaking referred to in the principal contract of the 24th November 1890, the main provisions of which are noted under South Indian railway, 3' 3\mathbb{g}" gauge, with effect from 1st April 1928, the ownership of the Suramangalam-Salem Railway has been transferred from the District Board of Salem to the Government of India and the line is being worked as part of the undertaking. With effect from 1st April 1929 the ownership of the Tanjore District Board Railway has been transferred from the District Board of Tanjore to the Government of India and the line is to be worked as a part of the undertaking, vide Railway Board's letter No. 2671-F., dated the 4th February 1929.

Gtatistics of working-

Note.—From the year 1936-37 the net earnings have been arrived at after taking into account the 'Appropriation to working expenses Depreciation Reserve Fund' instead of actual expenditure on 'Replacement and Renewals' previously accounted for.

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.c., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capi- tal outlay, given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8
1908 . 1909 . 1910 . 1911 . 1912 . 1st qr. of 1913. 1913-14 . 1914-15 . 1916-16 . 1916-17 . 1917-18 . 1918-19 . 1920-21 . 1921-22 . 1922-23 . 1923-24 . 1924-25 . 1926-27 *	Miles. 445-91 445-94 445-94 445-94 445-94 445-94 445-94 445-94 445-94 445-94 445-94 445-94 445-94 445-94 445-94 445-94 445-94 445-94 445-94 445-94	Rs. 6,42,27,971 6,43,58,255 6,61,74,084 6,57,73,175 6,68,13,600 6,72,88,570 7,01,73,755 7,13,55,000 7,26,72,632 7,20,78,897 7,18,73,597 7,19,02,358 7,18,23,587 7,31,18,804 7,86,59,774 8,28,36,429 8,35,71,082 8,36,44,602 8,56,86,637 8,88,66,662	Rs. 57,25,148 62,30,385 63,39,154 69,66,156 74,16,071 18,84,615 79,51,816 78,17,228 81,90,992 98,22,191 1,10,05,446 1,15,66,705 1,25,81,211 1,25,03,450 1,28,17,823 1,50,61,868 1,50,20,309 1,51,37,699 1,61,00,542 1,60,99,955	Rs. 25,25,034 28,18,753 24,05,532 38,13,140 36,22,022 5,32,409 29,01,752 32,06,665 45,00,975 49,48,032 64,88,044 67,90,338 57,87,546 46,20,780 19,65,285 38,86,916 58,49,640 71,35,053 65,35,450 69,40,006	3·93 4·38 3·77 5·80 5·27 0·79 4·26 4·49 6·19 6·87 9·03 9·44 8·06 6·32 2·50 4·69 7·00 8 53 6·51 7·70	Rs. 247 269 273 300 320 325 343 337 366 424 475 499 543 539 553 650 618 653 674 668	55.90 54.76 60.63 45.26 52.51 71.75 62.39 58.98 46.99 49.61 41.05 41.05 41.29 51.00 63.04 84.67 74.19 61.06 52.86 65.62 53.80
1927-27 + . 1927-28 . 1928-20 . 1929-30 .	488.08 491.94 601.97	9,72,62,033 9,97,59,903 10,41,39,226	1,70,54,864 1,76,11,505 1,91,14,639	56,15,378 76,69,346 86,26,483	5·77 7·69 8·28	672 688 609	67·07 56·45 54·87
1930-31 . 1931-32 . 1932-33 . 1933-34 .	600.06 599.03 599.03	10,56,18,302 10,80,35,006 10,93,84,253 10,91,32,467	1,84,52,414 1,69,86,230 1,66,78,005 1,59,56,355	84,63,006 72,33,957 65,39,398 69,32,164 75,56,326	8.01 6.70 5.98 6.35 6.80	590 541 532 509 526	54·14 57·41 60·79 56·56 53·57
1934-35 . 1935-36 . 1936-37 .	598·97 599·14 599·14	11,11,85,444 11,20,09,734 11,26,20,372	1,64,17,772 1,64,83,808 1,70,84,958	70,57,006 76,89,997	6·83 6·83	526 447	57·19 54·99

(b) *Shoranur-Cochin railway (5' 6" gauge)-

The Shoranur-Cochin railway is the property of the Cochin Durbar and was worked by the former Madras Railway Company up to the 31st December 1907. With effect from the 1st January 1908 it was made over to the South Indian Railway Company to be maintained and worked as part of its undertaking.

Progress in opening -

Section of railway	Date of opening	Miles.	Total
1	2		4
Shoranur to Ernakulam	16-7-02	65•01	65·01

Details of construction -

Permanent-way.—The permanent-way consists of B. S. 90 lbs. R. flat bottomed steel rails laid on hard-wood sleepers. Bearing plates are used at joints and on bridge sleepers only.

Ballast.—The line is ballasted with stone throughout.

Fencing.—The line is fenced only at station yards and approaches to level crossings.

Curves.—The sharpest curve is of 1,432.5 feet radius.

Gradients.—The ruling gradient is 1 in 80 (compensated).

Agreements-

Dated the 1st January 1908, between His Highness the Raja of Cochin and the South Indian Railway Company, for maintenance and working.

Dated the 24th May 1915, between His Highness the Raja of Cochin and the South Indian Railway Company as to the adoption of Government financial year for the preparation of accounts.

Main provisions of agreements-

- (i) Land.—Provided by the Cochin Durbar free of cost.
- (ii) Government aid.—The railway (which is the property of the Cochin Durbar) is maintained and worked by the South Indian Railway Company in all respects as part of their own undertaking except only as to the provision of funds for capital expenditure which are provided by the Durbar.
- (iii) Terms of working.—For maintenance and working the Shoranur-Cochin railway the Durbar pays to the Company in each half-year—
 - (a) all expenditure on renewals, as distinguished from maintenance expenses, incurred on the Durbar's line;

It has been agreed to charge to the profits of this line during the period of conversion to Broad Gauge, a sum of Rs. 69,989, as the average annual renewal and replacement expenditure, which would normally be incurred but for the conversion scheme, vide Railway Board's No. 1303-B. of 29th May 1933.

- (b) the Durbar's railway share of working expenses arrived at by deducting from the total working expenses of the combined system the expenditure incurred on the combined system for renewals as distinguished from maintenance, and dividing the balance between the Company and the Durbar's railway in the proportion that the gross receipts of the latter bear to those of the combined system; and
 - As and from 24th October 1934, the date of opening of the converted Broad gauge line, the expenditure on renewals of works and equipment other than Rolling Stock, shall be deducted from the total working expenses of the system for arriving at the Durbar's share of working expenses.
- (c) the sum payable under the agreement as rent for the use of the Shoranur Junction station based on the total cost of the Junction station.
- (d) 8 per cent. of the gross earnings of the line towards hire for provision of Rolling Stock by the South Indian Railway from 24th October 1934. This rate is subject to revision on mutual agreement between the South Indian Railway Company and the State. The State

^{*}Originally constructed on the 3'-3% gauge but was converted to 5'-6" gauge on 24th October 1934.

(b) Shoranur-Cochin railway (5'-6" gauge)—concld.

Main provisions of agreements--concld.

has the option to provide its own Rolling Stock at the end of 5 years subject to the condition that the Rolling Stock as is in use on the said line and which would otherwise become surplus to South Indian Railway should be purchased by the State at prices fixed in accordance with Railway Board's formula.

- (iv) Distribution of profits.—Any difference between the gross receipts of the Shoranur-Cochin railway and the payment for working under (iii) which may exceed 2 per cent. on the booked capital expenditure of the Durbar's line including land are deemed "surplus profits," divisible between the Durbar and the Company in the proportion of four-fifths to the former and one-fifth to the latter.
- (v) Rates and fares.—Those generally applicable to the South Indian railway system; vide (iv) under South Indian railway (3' 33" gauge).
- (vi) Special obligations as to the conveyance of :-
 - (a) Mails, troops, police, high Government officials and Government stores.
 (b) Government bullion and coin, and the persons in charge thereof.
- (vii) Power of the Government to determine agreement.—The agreement terminates upon the determination by Government of the South Indian Railway Company's principal contract with the Secretary of State, dated the 24th November 1890; vide (vii) under South Indian railway (3' 38" gauge).
- (viii) Power of the Cochin Durbar to determine agreement.—
 (ix) Power of the Company to determine agreement.—

 On giving 12 months' notice expiring on the 30th September or before the 31st March in the succeeding year.
 - (x) Term of agreement.—Subject to (vii), (viii) and (ix).

Statistics of working (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14).---

Year I	Milengo open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net enrnings on total capital outlay given in column (3).	Earnings per mile per week	Proportion of expenses to earnings.
	Miles.	Rs.	Rs.	R ₅ . 2,79,356	4.00	Rs. 196	57.65
1913 14	64.76	69,85,278	6,59,639 6.68,795	2,79,330	3.90	199	59.09
1914-15	64·75	70,15,724	7,01,335	3,21,080	4.55	208	54.22
1915-16	64.75	70,51,322 71,01,101	7,86,177	4,12,268	5.81	233	47.56
1916-17 1917-18	64.75	71,01,101	8,87,643	4,92,171	6.92	264	44.55
1917-19	64.75	71,17,043	8,89,886	4,32,286	6.07	264	51-42
1919-20	64.75	71,26,183	9,74,638	3,98,009	5.59	289	59.16
1920-21	64.75	71,11,812	10,17,567	4,74,296	6.67	302	53.39
1921-22	64-75	72,75,887	9,24,715	1,12,206	1.54	275	87 · 87
1922-23	64.75	74,88,749	11,30,059	3,55,828	4.75	336	68.51
1923-24	64-75	75,40,784	11,26,050	3.71,675	4.93	334	66.99
1924-25	64 75	75,25,577	8,47,956	1,01,248	1.85	252	88.06
1935-26	64.75	75,32 003	11.38,807	4,67,212	6.20	333	58.97
1926-27	64.75	75,57,342	12,13,567	5,36,163	7.09	360 392	55.82 52.53
1927-28	64.75	75,65,545	13,20,812	6,26,987	8.29	392 427	56.32
1928 29	64.75	75,70,308	14,37,990	6,28,151	9.36	418	49.49
1929-30	64.75	75,87,999	14,00,704	7,10,513 5,40,711	7.09	397	59.69
1930-31	64.75	(a)76,28,517	13,41,435	5,71,538	5.74	407	58.48
1931-32	64.75	(6)99,50,591	13,76,547 13,99,443	4,98,538	4.30	415	64.37
1932-33	64.73	(c)1,15,88,776	14,90,775	(d)5,73,401	4.37	442	61.54
1933-34	64.73	1,31,09,554	16,64,321	5,80,375	5.47	493	65.13
1934-35	64.69	1,06,08,205 1,04,81,612	17,27,334	5,16,563	4.93	510	70.09
1935-36 1936-37	65.01	(e)1,05,05,775	16,60,272	5,01,378	4.80	490	69.62

Note.—The figures furnished for 1933-34 and provious periods relate to Metre gauge whilst those for 1934-35 include M. G. figures upto 24th October 1934 and B. G. figures for the subsequent period.

- (a) Includes outlay on Shoranur-Ernakulam Railway Conversion, i.e., Rs. 11,169.
- (b) Includes outlay on Shoranur-Ernakulam Railway Conversion, i.e., Rs. 22,95,936.
- (c) Includes outlay on Shoranur-Ernakulam Railway Conversion i.e. Rs. 39,54.216.
- (d) Arrived at without taking into accounts the programme Revenue expenditure borne by the Cochin Darbar in connection with the conversion of the line to Broad gauge as in the provious years.
- (c) Excludes Rs. 1,96,600 being the Revenue Expenditure on Shoranur remodelling works charged to Cochin Government and treated as Capital expenditure of Shoranur Cochin Railway ranking for interest.

(c) South Indian railway (3' 3\sqrt{3}" gauge)— Progress in opening—

Sections of Railway.	Date of opening.	Miles.	Total.	Grand total. 5	Remarks.
Tindivanam to Cuddalore Old Town Euddalore Old Town to Porto Novo Porto Novo to Chidambaram Chidambaram to Coleroon Coleroon to Shiyali Shiyali to Mayavaram Mayavaram to Tanjore Tanjore to Trichinopoly Junction. Trichinopoly Junction to Pudukkottai Puddukkotai to Manamadura Manamadura to Mandapam	15-1-00 1-1-79 1-9-76 1-1-77 1-1-78 1-7-79 1-1-78 1-7-77 16-2-77 11-3-62 17-4-29 1-7-30 1-8-02 1-1-14	0·11 1·81(a) 76·86(a) 51·32 17·16 6·73 4·78 6·06 12·24 43·76 31·50° 32·74 50·80 60·30 3·12 6·77			(a) the section between Madras Beach to Egmore 2-59 miles is electrified double line. The section between Madras Egmore to Tambaram 15-55 miles is triple line of which two lines are electrified, opened on the 11th May 1931. *Originally constructed on the 5' 6' guage but was converted to 3' 3\foralle{2}' gauge. Tanjore to Budalore 10-85 miles on 10th July 1875 and Budalore to Terichinopoly Junction 20-14 miles on 17th July 1875. The
Rameswaram Road to Dhanushkodi Jetty Dhanushkodi Jetty to Dhanushkodi point Branches— Arkonam Branch—	10-12-08	10.64	425-94		rection between Golden Rock and Trichinopoly Junction is a double line and the length is 2-25 miles.
Chingleput to Walajabad Walajabad to Conjeevaram Conjeevaram to Arkonam	1-8-80 1-1-61 8-5-65	13-66 7-91 17-65+	39-25		†Originally constructed, on 5' 6' gauge but was converted to 3' 3% gauge in sections on 12th, 13th and 14th July 1678.
Katpadi Branch— Villupuram to Tiruvannamalai Tiruvannamalai to Katpadi	17-11-90	41·80 57·13	08.03		
Pondicherry Branch— Villupram to the Gingeo river inclusive of the bridge over the river	15-12-70	16-47	10-47		
Villupuram to Vriddhachalam Vriddhachalam to Lalgudi Lalgudi to Bikshandar koil	1-12-27 1-2-29 10-3-28 12-12-27 22-8-27	33-59 59-97 6-61 2-75 5-65	107-57		
Ch. 33. 1. 4. 32. (3.31 1.3	. 21-6-28	35-36	35.36		
Salem Market to Salem Town	1-1-17 1-1-17 3-2-31 17-8-31	1.97‡ 1.88\$ 50.94 31.69	86·49 17·98		Cools traffic only.
Mayararam Arantangi Railway— Mayararam Junction to Mutupet Mutupet to Pattukottai Pattukottai to Arantangi	2-4-94 20-10-02 31-12-03	53·61 17·03 28·35	98-99		§ Originally constructed on 5' 0' gauge but was converted into 3' 3\forall' gauge on 3rd February 1931.
Mannargudi Branch— Nidamangalam to Mannargudi	. 15-2-15	8-41	8-41		5' 6" gauge but was converted to 3' 3\forall gauge. Tanjore
Tirutturaipundi-Point Calimere Railway— Tirutturaipundi to Agastiyampalli Agastiyampalli to Point Calimere Nagore Branch—	15-5-19 20-1-36	22·94 5·30	28•33		to Nidamangalam 18.65 miles on 3rd July 1875 and Nida- mangalam to Tiruvarur 15.10 miles on 26th January 1875.
Tanjore to Tiruvarur Tiruvarur to Negapatam Negapatam to Nagore	2-12-01 15-7-61 1-12-99	33·75 14·33¶ , 4·67	, 52•75		Coriginally constructed on the 5'-6" gauge but was converted to 3' 3\\$" gauge on 19th
Through goods line between Trichinopoly Junc- tion and Golden Rock via classification Yard Trichinopoly Tuticorin Section— Trichinopoly Junction to Madura Madura to Tuticorin	1-4-31 1-9-75 1-1-76	96·03** 98·13	1.59		June 1875. **Originally part of main line since shown as branch line. Trichinopoly Manamadura Chord
Tuticorin to Foreshore Dindigul Pollachi Railway— Dindigul to Pollachi	7-8-99	0.40	194-56		is included in main litte.
Pollachi Palghat Railway—	. 19-11-28	74.51	74.51		
Pollachi to Palghat Madura Manamadura Section— Madura to Manamadura.	1-4-32	34.10	34·10 29·11††		ffOriginally formed part of main line since shown as branch line
Madura Bodinayakanur Railway— Madura to Bodinayakanur	20-11-28	55-68	92.68		Trichy Manamadura Chord is included in main line.
Carried over		••	1,406.02		. 1

14. SOUTH INDIAN RAILWAY—contd.

(c) South Indian railway (3' 33" gauge)—contd.

Progress in opening-concld.

Sections of railway.	Date of opening.	Miles.	Total.	Grand Total. 5	Remarks.
Brought forward Rameswaram Branch— Pamban to Rameswaram Virudhunagar-Tenkasi Railway— Virudhunagar to Tenkasi Tinnevelly Branch—	1-9-06	7·04 75·01	1,406·02 7·04* 75·01		*Originaly formed part of main line, since converted into a branch line.
Maniyachi to Tinnevelly Total open mileage	1-1-76	18-39	18-39	1,506-46	
GRAND TOTAL INCLUDING DOUBLE AND TRIPLE LINE.		••		1,506-46	
Double Line— Madras Beach to Egmore Golden Rock to Trichinopoly Junction		2·59† 2·25	4.84		†Electrified.
Triple Line— Egmore to Tambaram		15.55‡	15.55		‡Two lines electrified.

Details of Construction-

- Permanent-way.—The rails in use are 50-lbs. bull-headed and British Standard 60-lb. bull headed B.-S₂40-lb. 41½ lb., 55-lb, 56-lb. and B. S. 60-lb. flat bottomed and British Standard 50-lb. 'R' 60-lb. 'R' and 75-lb. 'R' flat bottomed steel rails. The 55-lb. rails are laid on the Pamban, viaduct only. The sleepers are cast iron pots, steel transverse, sal, pynkado, west coast teak, Jarrah and Irool wood.
 - Ballast.—The line is ballasted throughout, partly with broken stone and partly with laterite and gravel interspersed.
- Fencing—The line is fenced, with the exception of the Villupuram-Katpadi, Madura-Mandapam, Pamban-Dhanushkodi, Mayavaram-Tranquebar, Tirutturaipundi-Point Calimere Sections, Villupuram Trichinopoly Railway, Virudhunagar Tenkasi Railway, Dindigul-Pollachi Railway, Cuddalore Vriddachalam Railway and Trichinopoly Manamadura Railway which are fenced only at stations.
 - Madura-Bodinaykkanur Railway, Salem-Attur-Vriddhachalam Railway and Pollachi Palghat Railway have no fencing either alongside the line or around station yards.
 - Curves.—The sharpest curve is of 819 feet radius except on the Chingleput-Arknonam Branch where it is of 792 feet, on the Pamban-Rameswaram section where it is of 700 feet and on the Negapatam-Nagore Section where it is of 500 feet radius.
 - Gradients.—The ruling gradient is 1 in 200, except on a length between Pandiyapuram and Kailasapuram on the Maniyachi-Tuticorin Section where it is 1 in 167 and on length between Adirampatnam and Sendakottai on the Arantangi Branch where it is 1 in 160; on the Villupuram-Katpadi, Villupuram-Cuddalore, Cuddalore-Vriddhachalam, Salem-Vriddhachalam, Trichinopoly-Madura, Dindigul-Pollachi and Pollachi-Palghat sections where it is 1 in 100 and on the Madura-Bodinayakkanur Branch where it is 1 in 80.

Contracts-

- Dated the 24th November 1890 (called the principal contract), between the Secretary of State and the South Indian Railway Company, for maintaining and working from the 1st January 1891, the railways which on the 31st December 1890 formed the undertaking of the former Company and completing and working the Villupuram-Guntakal railway.
- Dated the 27th June 1901 (supplemental to the principal contract), between the Secretary of State and the South Indian Railway Company, relating to the construction and working of Pamban and Travancore branches.
- Dated the 8th April 1903 (supplemental to the principal contract), between the Secretary of State and the South Indian Railway Company, as to the adoption of Is. 4d. per rupee as the "prescribed" rate of exchange. [Cancelled as from the 1st October 1921 under the contract of 6th December 1923.]
- Dated the 2nd March 1909 (supplemental to the principal contract), between the Secretary of State and the South Indian Railway Company, providing for the relinquishment from 1st January 1908 of the section of the Company's line north of Katpadi and the transfer to the Company from the same date of the Jalarpet-Mangalore section of the former Madras railway.
- Dated the 26th October 1909 (supplemental to the principal contract), between the Secretary of State and the South Indian Railway Company, for the construction and working as an integral part of the undertaking of the Dharmapuri-Hosur extension of the Morappur-Dharmapuri railway.

(c) South Indian Railway (3' 33" gauge) -- contd.

Contracts-contd.

- Dated the 21st December 1910, between the Secretary of State and the South Indian Railway Company, supplemental to and continuing with further modifications, with effect from 1st January 1911, the principal contract of the 24th November 1890 as modified by previous supplemental contracts.
- Dated the 23rd April 1914 (supplemental to the contracts of 1901, 1903, 2nd March and 26th October 1909 and 1910), between the Secretary of State and the South Indian Railway Company, as to the adoption of the Government financial year for the preparation of accounts.
- Dated the 6th December 1923 (supplemental to the contracts of 1890, 1901, 1903, 2nd March and 26th October 1909, 1910, 1913 and 1914), between the Secretary of State and the South Indian Railway Company, as to compiling Accounts and Statistics annually instead of half-yearly and as to rate of exchange.
- Dated the 15th May 1929 (supplemental to the above contracts), between the Secretary of State and the South Indian Railway Company, regarding the adoption with effect from 1st October 1928 of the uniform rate of exchange of 1s. 6d. the rupee subject to the determination of the same by at least six months' notice on either side, such notice expiring on the 31st day of March or the 30th day of September in any year.
- Dated the 13th Day of May 1932 (Supplemental to the above Contract), between the Secretary of State and the South Indian Railway Company, regarding the treatment of moneys advanced by the Secretary of State to the Company since 31st day of December 1910, for the purpose of providing for capital expenditure on the Company's Undertaking, and with regard to expenditure on the construction of extensions of the South Indian Railway, and the incorporation of certain Railways in the undertaking.
- Dated the 22nd day of June 1933 (supplemental to the above contracts), between the Secretary of State and the South Indian Railway Company, regarding the working of the following extensions:—
 - (i) Vriddhachalam-Cuddalore Railway which was opened for traffic in the month of June 1928.
 - (ii) Shoranur-Nilambur Railway which was opened for traffic in the month of October 1927, and
 - (iii) Salem-Mettur Dam Railway which was opened for traffic in the month of April 1929.
 - Dated the 4th February 1937 between the Scientary of State and the South Indian Railway Company, regarding rates for recovery of rent in respect of buildings provided for the Postal Department of the Government of India.

Main provisions of contracts-

- (i) Land.—Provided by the Government at the cost of capital.
- (ii) Government aid.—Guarantee of 3½ per cent. in sterling on the Company's share capital of £1,000,000 and on any paid-up stock or share (other than preference) capital thereafter issued by the Company with the sanction of the Government (not including premia paid thereon).
- (iii) Distribution of profits.—Under section 60 of the principal contract of the 21th November 1890 as amended by section 25 of the supplemental contract of the 1st December 1910, and clause 6 of the Supplemental Contract of 13th May 1932 the net revenue receipts of each half-year are applied, in the following manner and order:—

In payment to Government-

- (a) of interest at the rate of 3½ per cent. per annum for such half-year, paid by Government under section 41 of the principal contract, i.e., under (ii) above;
- (b) of the amount paid by Government in respect of interest for such half-year, upon the sum of £425,000 irredeemable debenture stock of the former Company; upon the debentures for £256,500 up to 4th January 1926 and £56,500 from 5th January 1926 issued for the purposes of the Pamban Branch; and upon any debenture stock or debentures or preference stock or shares issued by the Company after the 31st December 1910;
- (c) of interest for such half-year at the rate of 3½ per cent. per annum on the amount of the Government capital as shown in the Government capital account for the division of such receipts; and
- (d) The Secretary of State has agreed to the exclusion, with effect from the 1st October 1924 from the Government capital account for the division of net revenue receipts of the three outstanding advances made by him for the purpose of the undertaking in excess of Note.—Clauses (a) and (c) are not operative from 1st April 1925.

(c) South Indian railway (3' 33" gauge,—contd.

Rs. 19,50,00,000 (including the advance for paying off a portion of the Pamban debentures) together with the further advances made up to the 31st March 1925, on the understanding—

- (1) that interest at the rate of $5\frac{1}{2}$ per cent. per annum on the amount so excluded shall be charged against the net revenue receipts of the undertaking before division of the residue, and
- (2) that the Secretary of State will retain his right to call upon the Company at any time to repay the whole or any part of the advances referred to. (India Office letter No. P. W.-2346-24, dated the 3rd November 1924.)
- (e) The Secretary of State has agreed to antedate for the periods 4th July-30th September 1924 and 4th January-31st March 1926 the arrangement already sanctioned with effect from the 1st October 1924 and the 1st April 1926 respectively, i.e., to exclude, during those periods the rupee equivalent of £175,000 and £200,000 from the Government Capital Account, interest thereon at the rate of 5½ per cent. per annum being charged against the net revenue receipts of the undertaking before division of the residue. (India Office letter No. P. W.-2524—26, dated the 26th July 1926).

The rate of interest of 5½ per cent. on the Socretary of State's advances up to 31st March 1926 for the purpose of the undertaking in excess of Rs. 19,50,00,000 (including the advances for paying off portions of Pamban Branch Debentures) should be treated as fixed until 31st December 1945, the earliest date for the termination of the Company's contract when the question of the varying rate will be dealt with if necessary in the light of the then prevailing conditions. (India Office letter No. P.W.-1834, dated the 20th May 1926).

- (f) The profit-sharing advances of the Secretary of State outstanding on the 30th September 1928 shall, with effect from the 1st October 1928, be excluded from the Government capital account for the division of Net Revenue Receipts, and shall carry a fixed rate of interest at 5½ per cent. Advances made after 30th September 1928 will not be dealt with in this way but will rank as profit sharing capital and will be charged interest at 3½ per annum.
- The profit sharing advances of the Secretary of State outstanding on the 1st April 1929 shall with effect from 1st April 1929 be excluded from the Government Capital Account and bear the fixed rate of interest at $5\frac{1}{2}$ per cent. per annum. It has also been agreed that any future readjustment of the contract portions of the Secretary of State's and Company's profit sharing advances, shall be made with effect from the beginning of the half year following that in which the Secretary of State's profit sharing advances shall have exceeded Rs. 19,50,00,000 by not less than the equivalent in rupees of £3,000,000 on the Company's application for such readjustment, vide clauses 1 (e) and 10 of the Supplementary Contract of 13th May 1932.
- The profit sharing advances of the Secretary of State outstanding on 31st March 1934, shall with effect from 1st April 1934 be excluded from the Government Capital Account for division of Net Revenue receipts and carry a fixed rate of interest, @ 4% per annum, payable before division of residue, the arrangement to continue until the 31st December 1945, and the Secretary of State reserving his existing right to call upon the Company at any time to repay the whole or any part of the advances. Advances made after 31st March 1934 are to rank as profit sharing capital of the Secretary of State, subject to the right of the Company to apply for a further adjustment if and when the amount outstanding reaches the equivalent of the figure of £3,000,000 (vide Clause 10 of the contract dated 13th May 1932) vide India Office letter No. F.-1026/34, dated 21st February 1934 subject to the right of the company to apply for a further adjustment, if and when the amount outstanding reaches the equivalent of the figure of £3,000,000, vide clause 10 of the Supplementary contract, dated 13th May 1932.
- (g) The residue, if any, is divisible between the Government, the Company and the Salem District Board whose Railway has been transferred to the Government of India with effect from 1st April 1928, and with effect from 1st April 1929 also of the Tanjore District Board whose lines have been transferred to the Government of India on that date, in the ratio of the actual amounts of the capital contributed by the Government, the Company, and the District Boards concerned, the Government Capital being the amount shown in the Government capital account for the division of net revenue receipts, the Company's capital being the amounts of its stock, and share capital (other than preference capital) paid up or credited as paid up, excluding any premia received, and the capital of the District Boards on the dates of the transfer of the ownership of their lines to the Government of India.
- For the purpose of payment of dividends to the Salem District Board, the Capital of the District Board will be inflated to such an extent as to give the District Board the same return on their Capital as they obtained in the last year before the transfer of ownership (i.e., 1927-28). The Taniora District Board's capital is subject to the guarantee of a minimum dividend of $3\frac{1}{2}$ per cent per annum.
- The Tanjore District Board's Capital for purposes of payment of dividend to the District Board, will be the capital outlay of the Tanjore District Board Railway plus the outlay on Mayavaram-Tranquebar Railway construction met out of funds provided by the District Board with interest charges thereon to end of March 1929, calculated at the rates applicable to Secretary of State's advances to Railway Companies, as per Railway Board's No. 2519-F., dated 16th June 1933.

(c) South Indian railway (3' 3\frac{3}{8}" gauge)-contd.

Main provisions of contracts-concld.

(h) As between the Secretary of State and the Company, the Vriddhachalam-Cuddalore Railway is to be worked as part of the undertaking on the ordinary terms, i.e., without any guarantee.

Note.—The guarantee recoverable from the District Board towards loss in working this line, is to be credited to the Secretary of State, vide Railway Board's No. 6561-F. of 25th May 1932.

- Shoranur-Nilambur and Salem-Mettur Dam Railways shall as from the times when the same were respectively opened for traffic, be worked by the South Indian Railway Company not as a part of the undertaking but at the expense, and on behalf of the Secretary of State, at actual cost plus 8 per cent. of the Gross Earnings for hire of Rolling Stock plus appropriate share of Joint Station expenditure at Shoranur and Salem Junction Stations respectively vide clauses 2 and 3 of the Supplemental Contract dated 22nd day of June 1933.
- The contract of 1910 has been revised with effect from 1st April 1925, and the residue for each half year of net revenue receipts, remaining after the deduction of interest charges on all debentures and other non-profit sharing capital, and other Miscellaneous charges at present made, such as loss on the working of the Travancore Railway, is to be divided between the Secretary of State, and the Company in proportion to the actual amounts of the profit sharing capital of each, at the end of the half year (subject to the second provise in substituted clause 60 of the contract) the amount of the Company's share of such residue for any half year being reduced by the amount previously paid to them as guaranteed interest for that half year.
- In respect of the new extensions of the Railway opened upto-date and to be opened hereafter (unless it shall be otherwise agreed in the case of any such further extension) a separate capital account of the expenditure incurred on each such extension, and a half-yearly revenue account showing its net earnings (if any), shall be maintained, to end of the half year in which it is opened for public traffic throughout, and the interest charges on that outlay less any net earnings for that period, shall be debited half-yearly to the Construction capital account. The total capital expenditure to end of the half year of opening of each extension is brought into the Government Capital account on the 1st day of the subsequent half year for division of net revenue receipts, vide clause 3 of the supplementary contract of 13th May 1932. In the case of Mayavaram-Tranquebar Railway, the amount contributed by the Tanjore District Board towards the cost of the construction of this line together with interest thereon to end of March 1929, shall, as from 1st April 1929, be excluded from the Government Capital Account for division of net Revenue receipts but included in the capital contributed by the Tanjore District Board for purposes of apportionment of surplus profits vide Clause (g), page 198.

It has also been agreed that-

- (a) all moneys advanced by the Secretary of State to the Company for the purchase of stores shall be entered in the Government Capital Account for the division of net revenue receipts,
- (b) immediately upon the value of any such stores being charged off to revenue, such value shall be deducted from the amount shown in the Government Capital Account,
- (c) value of stores in stock of a distinctive kind specially purchased for use on the Coonoor Ootacamund Railway extension shall be excluded from the Government Capital Account for division of net revenue receipts,
- (d) only the amounts actually drawn by the Company from Government but not repaid shall be entered in the aforesaid Government Capital Account. That is, 10 per cent. retention money deducted from the Contractor's bills and other amounts held at the credit of deposits capital which, when finally adjusted would go towards reduction of capital, should be deducted from the aforesaid Government Capital account, and
- (e) the amounts of cheques drawn on capital account shall be entered in the aforesaid Government Capital account on the dates on which they are cashed but not earlier.
- (iv) Rates and farcs.—The Government will from time to time authorise maxima and minima rates, and prescribe the several classes and descriptions of passengers and goods to which such rates shall be respectively applicable, as well as the extent to which, within the authorised maxima and minima, the Company may vary the said rates.

The Company have power to quote through rates and fares for both goods and passengers from the Jalarpet-Mangalore section to the Madras-Bangalore section of the Madras and Southern Mahratta railway system (but not in the reverse direction), divisible between the two companies in mileage proportion without deduction of terminals or other special charges, except for traffic to and from the Nilgiri line the mileage over which is reckoned at twice its actual mileage in the division of such rates. No rate or fare to Madras so quoted should, without the prior sanction of the Government, be higher than that which, for the same class or description of traffic, was in force on the 1st January 1910.

- (c) South Indian railway (3' 33" gauge)—contd.
 - (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—To be conveyed on the same general conditions as on State railways of the same gauge.
 - (b) Government bullion and coin, and the persons in charge thereof .-- To be conveyed at special rates to be approved by Government.
 - (vi) Services for any Department of the Travancore Durbar.—On such portion of the Travancore Branch as runs through the Indian State of Travancore, to be performed on the same general condition as on other 3' 33" gauge State railways and at rates approved by the Government.
 - (vii) Power of the Government to determine contract.—The railway and all its appurtenances are absolutely the property of Government, who may terminate the contract on the 31st December 1945, or at the end of any succeeding fifth year, by giving to the Company in England not less than 12 calendar months' previous notice; also at any time on 6 months' notice should the Company fail to observe its obligations or the undertaking be worked at a loss for not less than three half-years

On the expiration or determination of the contract the Government are to take possession o the railway and all its appliances, etc., repaying the Company at par its capital of £1,000,000, and any further capital raised by it, and paid to Government, but excluding any premia paid thereon, and receiving from the Company any unexpended balance of the capital advanced by Government for the purposes of the undertaking as well as for the Travancore Branch.

- (viii) Power of the Company to surrender contract .- Nil.
- Term of contract.-55 years, i.e., from 1st January 1891 to 31st December 1945, subject to (vii) Statistics of working (Those for the periods prior to 1891 will be found in Appendix 83 to the Railway Administration Report for 1907).—
 Includes the South Indian (5' 6" gauge), Nilgirl, Morappur-Hosur and Tirupattur-Krishnagirl railways from 1908.

Note.—From the year 1936-37 the net earnings have been arrived at after taking into account the Appropiation to Depreciation Reserve Fund instead of actual expenditure on 'Replacements and Renewals' previously accounted for.

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net carnings on total capital outlay, or capital at charge, given in column (3).	Interest.	Company's share of surplus profits (based on terms of contract) attributable to each year.	Amount payable to District Boards.	Percentage of Company share of net earnings (surplus profits Plus guaranteed interest on share capital) on Company's capital.	Gain or loss to the State pertaining to each year.	Earn- ings per mile per week.	Proportionof expenses to earnings.
1	5	3		<u> </u>	6	7	8	0	10	11	12	13
1891	Miles. 900-76 1,105-10 1,041-51 1,041-51 1,041-51 1,041-59 1,041-59 1,041-59 1,030-53 1,033-63 1,123-13 1,123-13 1,123-13 1,123-13 1,123-05 1,123-06 1,133-06 1,133-06	Rs. 7,72,11,800 7,62,83,701 7,63,31,043 7,64,13,362 7,63,38,64 7,67,63,325 7,65,41,873 7,65,41,873 7,65,12,029 7,62,65,528 8,01,49,712 8,18,72,671 8,31,40,655 8,62,95,101 8,01,97,603 0,00,35,408 16,57,78,715 16,03,05,627 16,28,01,151 17,03,55,986	Re. 70.30,750 77.14,000 80,02,415 80,46,559 80,14,047 80,45,591 91,81,400 86,67,581 84,74,401 1,05,51,072,14,108,12,23,14,10,421 2,04,01,326 2,17,41,04,01,326 2,17,41,01,321 2,04,01,326 2,17,41,01,321 2,17,41,01,31 2,17,41,01,31 2,17,41,01,31 2,17,41,01,31 2,17,41,01,31 2,17,41,01,31 2,17,41 2,17,	Rs. 24,20,625 25,53,501 13,15,018 32,82,863 38,90,937 40,27,459 42,06,757 38,85,527 39,83,640 43,07,040 64,15,170 65,27,930 65,77,330 65,27,370 65,27,30 65,27	3·15 3·05 4·30 5·05 5·15 5·16 5·26 6·70 6·73 8·24 7·62 6·25 6·36 7·73	18.8 35.80,73.3 39,51,093 39,51,1093 39,55,152 42,81,812 42,77,578 40,00,077 38,76,142 30,38,393 36,62,994 37,23,736 38,1209 40,05,713 40,02,722 40,05,713 40,02,723 40,52,430 51,05,088 52,77,315 54,89,120	Rs. 70,001 70,588 1,41,078 1,65,059 2,60,509 2,60,509 3,37,702 2,06,184 3,08,609 5,43,800 5,43,806 5,43,806 6,71,818 6,71,818 6,71,818 6,71,818 6,71,818 6,71,818 6,71,818 6,71,818 6,71,818 6,71,818 6,71,818 6,71,818 6,71,818	Rs.	 5.64 	Rs. —12,31,012 —11,74,088 —8,83,910 —11,53,006 6,41,190 —3,19,344 +82,823 —1,80,178 +43,371 +3,06,223 +11,47,550 +13,30,055 +25,80,590 +21,90,403 +10,41,014 +13,05,973 +26,21,387 +40,31,004 +44,14,052 +44,14,052 +68,18,730 +73,16,702	Rs. 1547 149 148 165 165 177 156 188 189 214 227 240 282 300 309 373	65·47 63·01 61·50 50·19 56·29 54·70 52·99 46·10 46·10 46·10 40·43 44·15 53·01 40·43 44·15 53·01 40·23 53·93 53 53·93 53 53 53 53 53 53 53 53 53 53 53 53 53
1st qr. of 1013 1013-14 1014-15 1015-10 1016-17 1017-18 1018-10 1020-21 1021-22 1022-23 1023-24 1024-25 1025-26 1026-27 1027-28 1026-27	1,395-61 1,453-60 1,455-17 1,455-17 1,455-17 1,455-17 1,455-17 1,455-07 1,455-07 1,455-07 1,445-01 1,444-51 1,444-51 1,444-51 1,486-14 1,686-14	17,32,28,471 18,26,41,473 16,75,01,032 15,06,75,625 18,78,31,760 18,76,534 120,31,00,000 123,42,31,036 124,03,52,75,000 123,42,31,036 124,03,62,212 124,02,55,057 126,21,67,223 128,82,11,723 133,73,78,477	68,27,737 2,80,70,002 2,72,72,211 2,95,00,916 3,23,81,253 4,01,10,515 4,07,28,030 4,88,09,408 5,07,03,023 4,04,15,580 5,07,03,023 4,04,15,580 5,27,13,42 5,20,18,173 5,20,75,258 5,01,25,000 6,10,55,008	27,15,071 1,17,27,705 1,15,22,805 1,40,91,070 1,02,25,740 1,02,03,47 1,02,40,445 1,63,04,017 1,24,45,832 1,44,84,720 2,17,05,104,87 2,17,05,10,10,10 2,17,05,10,10,10 2,13,10,10,10 2,44,07,034 2,43,10,673 2,44,07,034 2,44,07,034 2,60,77,473	5.50	14,07,085 78,71,650 03,34,802 05,33,607 04,44,403 05,29,673 65,33,361 57,37,710 69,14,670 78,15,503 87,14,087 87,62,030 91,46,418 98,78,378 1,09,75,213 1,09,75,213 1,50,08,014	45,703 2,24,304 1,32,328 5,17,105 8,02,782 17,04,444 \$8,00,917 7,11,217 2,16,790 2,02,030 7,782,272 6,07,538 6,77,509 3,00,7,538) 5,71,539(e)	1.18 5.00 4.00 6.33 6.93 8.85 8.00 8.30 7.01 4.77 5.50 8.42 8.02 8.02 8.02 7.17 7.63 8.44	+12,62,281 +36,31,745 +50,98,844 +80,25,141 +92,64,142 +1,23,070,442 +1,10,98,618 +82,38,121,13,500 +58,20,193 +1,23,66,553 +1,40,500 +1,40,500 +1,30,70,988 +1,40,50,008 +1,30,70,988 +1,00,22,689 (f) 86,96,776(528 536 570 644 667 651 689 675 670 619 582	59.85 58.72 57.75 18.94 49.88 44.98 54.51 40.98 71.71 57.01 58.10 58.10 58.10 59.52
1930-31 1931-32	2,162·71 2,194·97	42,22,07,502 42,69,68,866	5,68,53,391 5,22,31,256	2,30,56,066 2,22,51,754	5·46 5·21	1,67,45,003	2,90,685(1	69,462 (4,05,017 <i>(j</i>)	5·27 5·05	+53,61,528 +41,40,182		59·45 57·40
1932-83	2,228.05	(k m) 42,05,17,020	5,17,03,868	2,24,03,931	5.24	1,74,58,887	2,84,138	4,25,471	5.01	+43,25,435	441	56.57
1683-34	2,227.81	(#2,09,64,578 (£)	4,00,34,877	2,08,69,392	4.85	1,73,01,933	1,89,304	3,61,005 (v)	4.37	+30,17,150	i i	1
1034-35	2,227.80	[,43,31,41,783 (t.k.)	5,10,02,528	2,14,06,756 (w)	4.04	1,69,05 626		4,00 088	4.80	+38,38,844		
1935-30	2,233-48	[43,52,09,415 (x 1)	4,87,36,973	1,75,85,083 (v)	4.01	1,67,33,300	· ·	2,80,340	0.10	+5,50,900		1
1936-37	2,233.25	43,73,25.496 (k)	4,97,36,904	1,59,73,071	3.65	1,63,47,710	85,157	3,00,791 (z)	3.03	—7,65,596	398	01.99

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finduding premia paid by Government in the purchase of the line.

Includes the share of loss recoverable from the Company in working the British section of the Travancers rallway.

Includes its. 17,336 being the result of the revision of surplus profits statement from 31st March 1915 to 31st Murch 1919.

The amount of sterling liabilities involved in the purchase of railways included in the figures shown against 1933-34 and 1934-35 has been converted the rates of exchange ruling at the time when the liabilities came into being as against the statutory rate of exchange—i.e., Is 6d. previously adopted. From the year 1935-36 onwards the same amount has been reconverted at the latter rate.

(0)	South	Indian	railway	(3"	33"	gauge)-contd.
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	Includes Rs. 2,14,77 statements prepared	l in accordan	ce with 1	India (Office let	ter No.	F. 10	21/30	of Is	t Apri	1193	υ).								Rs.
G ₁ '	Amount payable to	Salem Distr	ict Boar	d on t	their Co	pital n	ergeo	l in t	he un	derta.	king						٠	٠	•	44,40
V **	Less amount overpe	aid for 1928.2	29 now re	covere	ed as a r	esult of	the re	evisio •	n of th	ie Sou	th I	ndian :	Railv	ay S	urplu •	s pr	ofits s	taten	nent -	S
																	•		_	44,40
(c)	Includes Rs. 2.63,00 Rs. 75,19,782 in the	0 being the gr undertaking	uarantee g paid in	d divid	dend for 30, tide	the ye. Rails a	ar 192 y Boa	9-30 : ird's t	at 3½% elegra	6 per : m No	nnu 267	m on tl 1-F. of	ie Ta 28th	njore Marel	Distri 1930	ict B	oard's	Capi	talot	
(d	Gain to the State o	n account of	the Sout	h Indi	an Rail	way		•		•	•	•			•	•	•	•	• !	96,62,579
	Less Net loss to the						, 1.e.	, inte	erest o	n Ca	pital	Outla	y in	exces	s of I	Net	Rever	nue	•	9,65,603
	Loss in Shoran																•		0,559	
	Loss in Trichy														•		•	3,4	4,555	
	Loss in Salem-				ay .		,											2,0	5,828	•
	Loss in Pollaci	•															•	7	3,257	
	Gain in Cudda			ailuay														1	6,903	
	Gain in Salem-						•							•					1,693	
						Ne	t Loss	з.			•							9,6	5,603	
1e	(1) Salem -							•										44	,402 (6)
,,	(2) Tanjore																	5,2	7,137	(c
Œ.	Figures are subject	to alteration.																		
(g	Represents net figu 1021/30 of 1st April	ire after ded 1930 and R	lucting I ailway	Rs. 68 Board	,776 bei 's letter	ng the No. 2	surj 578-F	plus p	rofits 28th J	overr une l	aid d 030.	luring t	he y	ears I	925-2	6 to	1929-	30, vi	de Inc	lia Office
() plu) (i) Includes the arre profits of South Indi	ars of Rs. 23 an Railway f	3 and 82 for 1928-	0 for t 29 and	he year 1929-3	s 1928- 0.	29 an	d 192	9-30	respec	tivel	y due t	o Sa	lem D	istric	t Bo	ard or	acco	unt o	f the revis
(i	i) Includes the arrea	rs of Rs. 752	due to	Tanjo	re Distr	ict Bos	rd on	acc	ounto	f revi	sion (of surp	lus pi	ofits	of Sor	th I	ndian	Raily	vay fo	r 1929-30.
(i . 75	i) Includes Rs. 2,63,0 19,782 in the undert)00 being the aking paid ir	guarante n 1930-3	eed dr 1, vide	vidend i Railwa	or the y Boa	year l rd's te	1930-: elegra	31 at 3 ım No	3½ per 5. 267	cent	. per ar of 28th	num Mar	on t	he T. 30.	anjo	re Di	strict	Boa	
							,			Cal.	T	istrict]	Con-	l for 1	020.2	1				Rs.
										Sale		Arrears					•	• :		36,984
											111.	arrars	OLI	140-41	, .	_				. 23

				:	37,827	
(2) Tanjore Distric	ct Board for	1930-31	٠	. 4,	30,883	
Dit	to	1929-30	•	•	752	
		,		4,	31,635	
	3	Cotal (1 and	12)	4	,69,462	

a now Contember 1025 to 31st March 1929 (as per revisi

- (i) Includes Rs. 31,494 teing the arrears of surplus profits due to the South Indian Railway Company for half years ended 30th September 1923 to 31st March 1931, vide India Office letter No. F. 1021/30, dated 1st April 1930 and Railway Board's letters Nos. 2578/F. of 28th June 1930 and 22nd September 1931 and Nos. 5750/F. of 14th February 1930 and 1206/B. of 8th January 1932.
- (j)(i) Includes Rs. 219 being the net arrears for the years 1928-29 to 1930-31, due to Salem District Board on account of the revision of South Indian Railway surplus profits statements for the years 1928-29 to 1930-31.
- (ii) Includes Rs. 4,512 and Rs. 5,264 being the arrears for the years 1929-30 and 1930-31 respectively, due to, Tanjore District Board on account of the revision of South Indian Railway Surplus profits statements for the years 1929-30 and 1930-31.

 iii) Includes Rs. 2,63,000 being the guaranteed dividend for the year 1931-32 at 3\frac{1}{2} per cent. per annum on the Tanjore District Board's Capital of Re. 75,19,782 in the undertaking paid in 1931-32, vide Railway Board's telegram No. 2671-F. of 28th March 1930.
- - (4) Excludes outlay on Mecheri-Mettur Section of Salem-Mettur Dam Railway.
- (1) Includes arrears of working Expenses charged to Shoranur-Nilambur and Salem-Mettur Dam Railways for the previous years as indicated in Railway Board's No. 5750-F. of 14th February 1930.
- (m) The Capital outlay has been arrived at by adding the outlay of Rs. 25,49,054 incurred during 1932-33 to the figure, viz., Rs. 42,69,68,866 advised by the Controller of Railway Accounts in his letter No. 727-St/C. R. A., dated the 20th January 1933.
- (n) Includes Rs. 5,829 being the arrears of surplus profits due to the South Indian Railway Company for the half years ended 30th September 1927 to 31st March 1932, consequent on the settlement of the terms of working Shoranur-Nilambur, Cuddalore-Viddacalam and Salem-Mettur Daiu Railways.
- (o) (i) Includes Rs. 232 being the arrears for the years 1928-29 and 1931-32 due to the Salem District Board on account of the revision of South Indian Railway Surplus profits statements for the years 1927-28 to 1931-32.
- (ii) Includes Rs. 16,397 being the arrears for the years 1929-30 to 1931-32 due to the Tanjore District Board on account of the revision of the South Indian Railway Surplus profits statements for these years and to the revision of Capital Outlay of the Tanjore District Board due to calculation of interest charges on funds provided by the District Board for Mayavaram-Tranquebar Railway to end of March 1929, instead of to end of March 1927.
- (iii) Includes Rs. 2,63,000 being the guaranteed dividend for the year 1932-33 at 31 per cent. per annum on the Tanjore District Board's Capital of Rs. 75,19,782 in the undertaking paid in 1932-33, vide Railway Board's telegram No. 2671-F. of 28th March 1930.

(c) South Indian railway (3' 33" gauge)—concld.

- (q) Includes Rs. 2,109 being the arrears of surplus profits due to the S. I. Railway Company consequent on the revision of the surplus profits statements for the half years ended 31st March 1928 to 31st March 1933 on account of the adjustment of the outlay on works carried out on Now Constructions subsequent to their opening but before the closing of the construction estimates made as per Railway Board's letter No. 5713-F. dated the 23rd March 1933.
- (r) (i) Includes Rs. 135 being the arrears for the years 1928-29 to 1932-33 due to the Salem District Board as a consequence of the revision of the S. I. Railway surplus profits statements for the half years ended 31st March 1928 to 31st March 1933.
- (ii) Includes Rs. 1,045 being the arrears for the years 1929-30 to 1932-33 creditable to the Tanjore District Board on account of the revision of the S. I. Railway surplus profits statements for those years and also due to the revision of the capital outlay of the Tanjore District Board due to calculation of interest charges on funds provided by the Distict Board for Mayavaram Tranquebur Railway to end of March 1929, at the rates applicable to Secretary of State's advances to Railway Companies instead of at the average rates applicable to Finance Accounts, as per Railway Board's letter No. 2519-F. of 16th June 1933.
- (iii) Includes Rs. 2,63,000 credited to the Tanjore District Board in 1933-34 on account of guaranteed interest for the year 1933-34 at 3½ per cent. per annum on the District Board's capital outlay merged in the undertaking as per Railway Board's telegram No. 2671-F. dated 28th March 1930.
 - (i) Includes a sum of Rs. 4,643 expended on the Construction of the Agastiyampalli Point Calimere Railway during 1934-35.
- (u) Includes the sum of Rs. 7,196 being the arrears of surplus profits due to the South Indian Railway Company consequent on the revision of the surplus profits statements for the half years ended 31st March 1931 to 31st March 1934 on account of the adjustment of the differencen the revaluation of second hand rails in the surplus profits statements.
- (c) (i) Includes Rs. 309 and Rs. 3,642 being the arrears for the years 1930-31 to 1933-34 due to the Salem and Tanjore District Boards respectively, as a consequence of the revision of the South Indian Railway surplus profits statements for the half years ended 31st March 1931 to 1st March 1934.
- and (ii) includes Rs. 2,65,716 credited in equal shares to the East and West Tanjore District Boards in 1934-35, on account of guaranteed interest for that year @ 34 per cent. per annum on the Tanjore District Board's capital merged in the undertaking (as per Railway Board's telegram No. 2671-F., dated 28th March 1930).
- (w) Represents the amounts arrived at after taking into accounts approximate amounts of Rs. 29,120 and Rs. 40,540 on account of appropriate share of Joint station expenses at Shoranur and Salem debitable to Shoranur-Nilambur and Salem Mettur Dam Railways respectively from the dates of their opening to end of March 1935.
 - (x) Includes a sum of Rs. 2,89,499 on Agastiyampalli-Point Calimere Extension opened for trafic on 28th January 1936.
 - (y) Excludes a credit of Rs. 20,376 being the 1/5th share of surplus profits of Shoranur-Cochin Railway credited to the head 'Payment to worked lines'
- (z) Includes, Rs. 2,65,716 credited to the East and West Tanjore District Boards in each of the years 1935-36 and 1936-37 in the ratio of 44·2 and 55·8 on account of guaranteed interest for that year, at 3½ per cent. per annum on the Tanjore District Board's capital merged in the undertaking, tide Railway Board's telegram No. 2671-F., dated the 28th March 1930.

(d) Nilgiri railway (3' 33" gauge)-

The original Nilgiri Railway Company was registered on the 30th September 1885 with nominal capital of Rs. 25,00,000, and a contract was executed between the Secretary of State and that Company on the 26th February 1886. The original Company went into liquidation in April 1894 and a new Company was formed in February 1896 to purchase the line from the former Company and supply the capital required to complete it and to construct the proposed extension to Ootacamund. The line from Mettupalaiyam to Coonoor was completed by the new Company and opened for traffic on the 15th June 1899. On the offer of the new Company to sell the line it was purchased by the Government for £2,35,000 on the 1st January 1903. The extension to Ootacamund was cons ructed by the Government.

Progress in opening-

	•		Sectio	ns of	railwa	y.						Date of opening.	Miles.	Total.
Mettupalaiyam to Coonoor Coonoor to Fernhill Fernhill to Ootacamund		:	:	:		:	:	:	:	:	:	15-6-99 15-9-08 15-10-08	16·99 10·86 1·11	
									Тотч	L	•		••	28.96

Detalis of construction-

Permanent-way.—The permanent-way consists of flat-footed steel rails, 50-lb. to the yard, laid on pynkado sleepers. Between Kallar and Coonoor (12 miles) there is also a central rack rail.

Ballast.—Rack section is ballasted with clean broken granite and the Adhesion section with hard genesis Fencing.—The line is unfenced throughout.

Curves.—The sharpest curve is of 318 feet radius.

Gradients.—The ruling gradient is 1 in 12.28 on the Rack section and 23.81 on the Adhesion section.

Contracts-

The railway was worked by the former Madras Railway Company up to the 31st December 1907 on hehalf of the Government. With effect from 1st January 1908, it was made over to the South Indian Railway Company as a part of the Jalarpet-Mangalore section for working as an integral part of their undertaking in terms of the contract of 2nd March 1909 between the Secretary of State and the Company with the condition that the South Indian Railway Company are not to pay interest on the capital cost of the Coonoor-Ootacamund railway incurred either before or after 1st January 1908.

(d) Nilgiri railway (3' 33" gauge)—concld.

Statistics of working (Those for the periods prior to 1908 will be found in Appendix 38 to the Rallway Administration Report for 1907).-

Note.—From the year 1936-37 the Netearnings Working Expenses have been arrived at after taking into account the Appropriation to Depreciation Reserve Fund instead of actual expenditure on 'Replacements and Renewals' previously accounted for.

Deprecia	ition Reserve 1	enna instead of actual	expenditure o	n recpitation	ne ana presentate	proviously ac	counted for.
Year	Mileage open at end of each year	Total capital outlay, including suspense, to end of each year, i.e., out- lay on (1) lines open, and (1) lines partly or wholly under construction	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	- 3	1	5	6	7	8
	Mites.	Rs	Rs.	Ra		Rs.	
1908	28.96 28.96 28.96 28.96 28.96 28.96 28.96 28.96 28.96 28.96 28.96 28.96 28.96 28.96 28.96 28.96 28.96	67,82,028 70,32,211 75,94,023 77,29,506 78,32,496 78,84,535 81,18,956 82,82,093 83,64,280 83,89,102 83,95,163 84,06,742 85,12,895 91,00,987 95,50,863 96,22,269 95,81,139 93,37,633 94,54,941 96,04,555	3,36,030 4,03,791 4,57,097 4,94,851 5,21,087 1,25,409 5,38,969 5,74,861 6,95,071 7,79,928 9,03,235 8,70,975 8,13,843 8,70,479 9,12,769 10,38,636 10,22,564 9,66,466 9,26,703 10,27,872 10,78,726	42,991 53,057 72,441 1,24,632 1,16,443 25,923 98,376 23,957 89,920 2,69,516 3,35,878 2,86,963 91,978 1,35,743 —11,910 2,27,180 3,50,462 3,41,695 61,981 3,67,845 51,613	0·63 0·76 0·95 1·61 1·49 0·33 1·21 0·29 1·03 3·21 4·00 3·41 1·05 1 4° -	223 271 304 329 340 333 357 382 462 518 600 578 544 578 606 690 679 642 615 683 716	87·21 84·87 84·15 74·81 77·68 79·33 81·75 95·83 87·08 65·44 62·81 67·05 88·77 84·41 101·30 78·13 65·72 64·65 93·31 65·22
1028-20 1929-30 1930-31 1931-32 1932-33 1933-34 1934-35	28.96 28.96 28.96 28.96 28.96 28.96 28.96	93,31,949 93,98,381 95,16,415 95,72,994 95,63,467 95,44,547 95,47,429	8,32,095 9,97,005 6,96,511 7,76,122 6,50,243 6,03,574 6,86,791	85,425 2,05,168 4,04,693 1,99,395 84,368 51 320 67,268	0.91 2.18 2.08 0.88	553 662 402 513 431 400 455	89.73 79.42 166.72 74.31 87.03 108.50 90.21
1935-36 . 1936-37 .	28·96 28·96	95,41,337 95,24,765	6,65,811 6,43,032	-78,899 $-1,15,305$::	440 426	111·85 117·93

(e' Peralam-Karaikkal railway (3' 3\frac{3}{8}" gauge)-

The line is partly in British and partly in French territory and was constructed by the agency of the South Indian Railway Company with the object of placing the town and port of Karaikkal in communication with the railway system of Southern India.

Progress in opening-

Section of railway.										Date of opening.	Miles.	Total.	
			1								2	3	4
Peralam to Karaikkal	•		•	•		•			•		14-3-98	14·65	14.65

Details of construction-

Permanent-way.—The permanent-way consists of 41½-lb. flat-footed steel rails laid on wooden and steel transverse sleepers.

Ballast -The line is ballasted with laterite.

Fencing.—The line is fenced only at stations.

Curves.—The sharpest curve is of 1432 feet radius.

Gradients.—The ruling gradient is 1 in 250.

Contract-

Dated the 27th March 1902, between the Government of the French Settlements in India and the South Indian Railway Company, for the working of the Peralam-Karaikkal railway.

Letter No. 88, dated the 19th February 1913, from the Government of French Settlements in India regarding the adoption of the Government financial year for the preparation of accounts.

(e) Peralam-Karaikkal railway (3' 3\frac{3}{8}" gauge)—concld.

Main provisions of contracts-

- (i) Land.—In French territory provided by the Colonial (French) Government free of cost but subject to a land tax as for private property: in British territory by the British Government free of cost on condition that the proprietary rights remain vested in the British Government.
- (ii) Government aid.—The railway was constructed at cost price by the South Indian Railway Company at the request and on behalf of the Colonial (French) Government, and is worked and maintained by the Company who provide the rolling-stock required for the traffic of the Peralam-Karaikkal Railway.
- (iii) Terms of working.—

 Direction, maintenance and working expenses, excluding the cost of repairing damages due to any extraordinary casualty and new minor works not costing more than Rs. 1,000 on the system, are calculated at the same proportion of the gross receipts of the Peralam-Karaikkal railway as obtains half-yearly on the Company's system, including worked lines, as a whole, plus the cost of repairing damages due to any extraordinary casualty and of New Minor Works on the branch, 5 per cent. of the gross receipts of the Branch for the use of the Company's rolling-stock and 5 per cent. per

Company's outlay on revenue and other stores and workshop buildings and machinery.

The "net earnings" so arrived at are paid every half-year to the Colonial (French) Government:

annum for interest on Rs. 30,000 which is taken as representing the Branch line's share of the

Provided always that if, at any time, the working of the Peralam-Karaikkal railway involve an actual loss to the Company, the Colonial (French) Government shall make good such loss

- (v) Rates and fares.—To be agreed to between the Company and the Colonial (French) Government but should not be less than the minima actually in force on the Company's undertaking.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—

 Not specified.

 (b) Government bullion and coin, and the persons in charge thereof.—
- (vii) Power of Colonial (French) Government to determine contract.— Determinable by either party on (viii) Power of the Company to determine contract.— giving to the other 12 months' previous notice expiring on the 30th June or 31st December in any year.
- (ix) Term of contract, if not determined under (vii) or (viii).—Not specified.

Statistics of working (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14).—

		1907 and in Appel	idix i to the Re	eport for 1913.	14).—		
Year.	Mileage open at end of each year.	Total capital outlay including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings. 5	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportions of expenses to earning.
1913-14 1914-15 1915-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27	Miles. 14·65 14·65 14·65 14·65 14·65 14·65 14·65 14·65 14·65 14·65 14·65 14·65 14·65 14·65	Rs. 7,23,786	Rs. 63,513 66,464 65,771 64,917 64,309 58,022 69,185 99,470 1,09,915 1,10,287 1,09,768 1,02,007 99,531 1,13,624 1,19,982	Rs. 21,393 20,041 23,026 23,187 21,584 7,675 17,991 —23,007 —7,990 10,335 15,702 8,043 4,139 16,926 18,400	2-96 2-77 3-18 3-06 2-98 1-06 2-49 1-43 2-17 1-11 0-57 2-34 2-54	Ra. 83 87 85 85 84 76 91 131 144 145 144 131 140 158	66·32 69·85 64·92 65·85 66·44 86·77 74·00 123·22 107·27 90·63 85·69 92·12 95·95 85·10 84·06 74·82
1928-29 1929-30 1930-31 1931-32 1932-33 1933-34 1934-35 1935-36 1936-37	14.65 14.65 14.65 14.65 14.65 14.65 14.65 14.65	7,25,072 7,25,072 7,26,266 7,25,512 7,25,938 7,26,656 7,26,656 7,26,703 7,26,660	1,06,853 1,23,169 1,21,848 96,272 97,383 95,517 92,233 78,540 86,762	26,906 16,171 11,426 33,037 (a)6,164 17,788 31,614 9,211 2,567	3.71 2.23 1.57 4.65 0.85 2.45 4.35 1.27 0.35	140 162 160 126 127 125 121 103	86 · 87 90 · 62 65 · 68 93 · 67 81 · 38 65 · 72 88 · 27 97 · 04

(f) Podanur-Pollachi railway (3' 33" gauge)-

The construction of this line by the South Indian Railway Company from funds to be provided by the District Board of Coimbatore was authorised in Railway Board's telegram No. 470-R.P., dated the 19th November 1913.

Progress in opening—						 			11010		
	Se	ction of r	ailway	ŗ.					Uate of opening.	Miles.	Total.
		1							2	3	4
Podanur to Pollachi	•	•	•	•	•	•	•	•	15-10-15	25.04	25.04

Details of construction-

Statistics of working-

Permanent-way .- The line is laid with 411-ib. flat-footed steel rails on hardwood (irool) and second class steel transverse sleepers.

Ballast.—The line is ballasted with moorum, except for 6 miles where field stones and kunkur are used.

Fencing.—Only the Pollachi station yard is fenced.

Curres.—The sharpest curve is of 955 feet.

Gradients.—The ruling gradient is 1 in 70.

The line was constructed and is being maintained and worked under the terms of an agreement which is under consideration. Main provisions of agreement-

Total capital outlay, including suspense, to end of each year, i.e., Percentage of Mileage Earnings net earnings Proportion Vest. outlay on Not. on total capital open at Grage per nile per of expenses end of (i) lines open, and (ii) lines partly or wholly under u cek. to earnings. earnings. outlay given in carnings. column (3). each year. construction. 1 9 7 5 6 8 Rs. 63,702 Rs. 34,178 Miles. Rs. Rs. 25·04 25·04 1915-16 11,09,181 106 46.35 10,48,834 11,37,252 11,39,028 1916-17 1,60,792 81,972 7·82 8·29 123 49·02 47·64 138 25.04 1917-18 1.80,127 94,319 1,01,579 25.04 1,93,123 8.02 47.40 148 2,51,144 2,72,431 2,95,812 1919-20 25.04 11,39,026 1,32,868 11:67 193 47.00 1,49,813 1,58,413 13·01 12·35 45.01 1920-21 25.04 11,51,770 12,82,981 209 1921-22 227 25 04 40.45 1922-23 25.64 13,85,426 3,51,665 1,89,138 13 - 65 270 13,97,363 16,68 371 16,73,924 1,81,387 2,15,865 2,21,513 1923-24 25 04 3,92,302 12·98 12·94 301 53·76 48·11 25.04 1924-25 4,15 939 319 1925-26 25.04 4.85.077 13-23 £4·33 1926-27 25.04 17,17,326 4,91,972 2,06,553 12.02 378 56.01 25.04 1927-28 17,28,405 17,32,077 11.69 11.39 5.35,439 2,02,124 62·25 62·86 411 1928-29 25.04 5,31,275 1,97,327 408 1929-30 25.04 1,84,639 1,29,687 17,58,931 4,79,063 10.50 368 61.46 1930-31 25.01 17,71,469 17,84,205 3,49,384 3,10,900 7·32 7·11 62·88 59·21 268 25.04 1931-32 1,26,824 237 (a)5,23,221 2,46,820 2,51,614 1932-33 25.04 17,84,066 1,85,543 10.40 401 64.54 25.04 1,31,905 (6)1,03,825 17.85.279 7·39 6·11 46.56 58.74 1933.34 189 25.04 16,99,385 1934-35 193 1935-36 25·04 25·04 15,24,413 2,01,048 65,003 154 67.67 1936-37 15.06.312 1.88.614 58,376 3.88 145 69.05

(a) Include the earnings due to Podanur-Pollachi Railway in respect of traffic originating or terminating between (inclusive) and Pollachi (exclusive) sections and passing viz., Podanur-Pollachi Railway credited to South Indian Railway in years and adjusted in 1932-33. Dindigul

(b) Arrived at after taking into account the adjustment in the year of Rs. 5,058 by credit to the District Board on account of South Indian Railway, proportionate interest charges on Pollachi joint station from the date of opening of Dindigul Pollachi Railway, viz., 10th November 1928 to end of March 1935.

(g) Pondicherry railway (3' 3\frac{3}{8}" gauge)-

The line is in the French territory and was constructed (by the Pondicherry Railway Company under the supervision of the South Indian Railway Company) with the object of placing the town and port of Pondicherry in communication with the railway system of Southern India and of developing the resources of the territory.

Progressi a opening-

Section of railway	Date of opening.	Miles	Total.
I	2	3	4
East bank of the Gingec river to Pondicherry	15-12-79	7.85	7.85

Details of construction-

Permanent-way.—The line is laid with 411-lb. flat-footed steel rails on wooden sleepers, except for about mile (from Gingee river to mile P. 118) where 50-th. bull-headed steel rails are laid on cast iron pot sleepers.

Ballust.—The line is ballasted with stone.

Fencing.—The line is fenced.

Curves .- The sharpest curve is of 1,320 between Villupuram and Pondicherry and 495 feet radius in the pier siding

Gradients.—The ruling gradient is 1 in 200.

(g) Pondicherry railway (3' 3g" gauge)—concld.

Agreement and contract-

Agreement, dated the 30th December 1890, between the South Indian Railway Company and the Pondicherry Railway Company, for maintenance and working.

Despatch from the Secretary of State, No. 19-Ry. dated the 17th March 1895, intimating the renewal of the agreement by the parties thereto.

Contract, dated the 23rd April 1914 (supplemental to the principal contract of 1890), between the Secretary of State and the South Indian Railway Company, as to the adoption of the Government financial year for the preparation of accounts

Main provisions of agreement and contract-

- (i) Land.—Not specified.
- (ii) Government aid.—The railway (which was constructed by the Pondicherry Railway Company) is maintained, worked and provided with rolling-stock by the South Indian Railway Company as an integral part of their undertaking—except only as to such works required for the accommodation and extension of traffic on the Pondicherry line which the Pondicherry Railway Company would nave had to construct had they been themselves working their own line, which the latter undertake to make at their own cost to the satisfaction of the South Indian Railway Company.
- (iii) Terms of working.—

 (iv) Distribution of profits.—

 Obtains on the South Indian Railway Company's undertaking including the Pondicherry line—
 duty, if any, payable to the Colonial (French) Government and direction and office expenses in England being excluded from the calculation. The balance is payable half-yearly to the Pondicherry Railway Company.
- (v) Rates and fares.—
 (vi) Special obligations as to the conveyance of
 (a) Mails, troops, police, high Govern
 - ment officials and Government stores.—
 - (b) Government bullion and coin, and the persons in charge thereof.—

To correspond with those for the time being in force on the South Indian Railway Company's undertaking.

- (vii) Power of the Government to determine agreement.—The agreement terminates upon the determination by Government of the South Indian Railway Company's principal contract with the Secretary of State, dated the 24th November 1890, vide (vii) under South Indian railway (3' 3\frac{3}{4}" gauge).
- (x) Term of agreement.—The agreement was originally for a term of 3 years, but it has since been renewed subject only to (vii), (viii) and (ix).

Statistics of working (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14).—

Year. Mileage open at end of each year, i.e., outlay on the earnings. Construction. Year. Year.								
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		open at end of each year.	to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	earnings.	earnings.	of net earnings on total capital outlay given in column (3).	per mile per week.	of expenses to earnings.
1936-37 7.85 5,88,030 1,59,637 58,630 9.97 390 63.27	1913-14 1914-15 1915-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 -1926-27 1927-28 1928-29 1929-30 1930-31 1931-32 1932-33 1933-34 1934-35	7·85 7·85 7·85 7·85 7·85 7·85 7·85 7·85	5,68,543 5,68,543 5,68,543 5,68,543 5,68,543 5,68,543 5,68,543 5,68,543 5,68,543 5,68,543 5,71,222 5,71,758 5,71,758 5,71,758 5,72,481 5,72,744 5,72,838 5,72,854 5,72,854	1,50,981 1,02,839 1,06,176 90,434 96,111 1,16,421 1,56,068 1,43,588 1,67,666 1,68,835 1,84,160 1,83,080 1,92,869 2,06,802 1,99,589 2,14,991 2,27,418 1,92,922 1,05,655 1,13,490 1,25,247 1,30,887 1,23,246	63,016 41,650 52,675 47,389 51,415 63,639 69,910 55,303 45,127 49,306 78,167 81,093 76,266 91,535 75,776 91,835 89,532 74,586 43,008 49,005 51,702 53,080 42,400	7·33 9·26 8·34 9·57 11·19 12·30 9·73 7·94 8·67 13·34 16·01 13·25 16·04 15·64 13·02 7·51 8·55 9·04 9·27 7·40	385 252 260 236 235 293 382 352 411 414 451 449 472 507 489 527 557 471 257 277 306 320 300	59·50 50·39 50·86 43·38 46·71 55·20 61·48 73·09 70·80 57·56 55·71 60·46 55·74 62·03 67·29 60·63 61·34 59·29 56·82 58·65 59·45 69·60
	1936-37	7.85	5,88,030	1,59,637	58,630	9.97	390	03.27

(h) Tinnevelly-Tiruchendur railway (3' 3\frac{3}{3}" gauge)-

Sanction to the construction of this line by the South Indian Railway Company on behalf of the District Board of Tinnevelly was conveyed in Railway Board's Notification No. 211, dated the 16th July 1915

Progress In opening—

Section of railway.			Date of opening.	Mile=. 3	Total.
Tinnevelly to Tirucheudur		•	24-2-23	38·18	39-18

Details of construction-

Permanent-way.—The permanent-way consists of 40-lb. British standard section flat-footed steel rails laid on hard-wood cross sleepers.

Ballast.—The line is ballasted with moorum for 28 miles and with sand for the rest.

Fencing.—The line is fenced only at stations

Curves.—The sharpest curve is of 955 feet radius.

Gradients.—The ruling gradient is 1 in 100.

Agreement-

The line was constructed and is being maintained and worked under the terms of an agreement which is under consideration.

Main provisions of agreement— Statistics of working—

Year.	Miloage open at end of each year.	Total capital outlay, including suspense, to end of the year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net carnings.	Percentage of net carnings on total capital outlay given in column [3).	Earnings per mile per week 7	Proportion of expenses to carnings.
	Miles.	Rs.				Ra	
1922-23 .	38.18	20,78,891	Rs. 40,097	Rs. 20,048	0.98	205	50.00
1923-24 . ` .	38 · 18	24,51,318	4,32,387	2,09,193	8.53	218	51.82
1924-25	38.18	25,51,567	5,11,535	2,44,873	9-60	258	52.13
1925-26	38.18	24,72,622	5,32,611	2.51,: 05	10-19	208	52-31
1926-27	38.18	25,35,414	5,19,423	2,42,042	9.55	262	53•40
1927-28	38.18	25,97,414	4,99,641	2,31,930	8.93	252	53 • 58
1928-29	38 · 18	26,10,722	4,87,702	2,25,691	8.04	246	53.72
1929-30	38.13	26,51,994	4,99,673	2,31,353	8.72	252	53.69
1930-31	38 · 18	26,74,246	4,75,643	2,18,411	8·17	239	54.03
1931-32	38.18	26,87,852	3,89,613	1,69,218	6.30	195	58-57
1932-33	38.18	27,03,384	4,19,336	1,89,221	7.00	211	54.88
1933-34	38.18	27,05,345	3,92,562	(a) 1,45,965	5.40	197	62.82
1934-35	33.18	27,04,969	3,48,642	1,42,452	5-27	175	59.14
1935-36 .	38.18	27,05,219	3,10,425	97,923	3.62	- 156	68-46
1936-37	38.18	27,10,877	3,60,580	90,466	3.34	181	74.91

⁽a) Represents the amount arrived at after taking into account, the difference in working expenses between 50% and 45% of the gross earnings previously recovered for the period from 1-10-1930 to 31-3-1933, and of readjustment of joint station expenses from the date of opening of Tinevelly-Tiruchendur Rly. in accordance with the revised terms for working the line.

(i) Travancore railway (British section) (3' 3%" gauge)— Progress In opening—

			
Sections of railway	Date of opening.	Miles.	Total.
1	?	3	4
Tinnevelly to Kallidaikurichi Kallidaikurichi to the British frontier near Shencottah	1-6-02 ·	· 19·14	,
Total	••	••	50.33

(i) Travancore railway (British section) (3' 38" gauge) -contd.

Datails of construction-

Permanent-way.—The line is laid with 50-lb. bull-headed steel rails on cast-iron pots and 56-lb. flat-footed steel rails on wooder sleepers over bridges

Ballast.—The line is ballasted throughout with broken stone.

Fencing.—The line is fenced at stations and at a few places where it runs close to villages and public roads.

Curves.—The sharpest curve is of 1,432 5 feet radius.

Gradients.—The ruling gradient is 1 in 100.

Contracts-

Dated the 27th June 1901 (known as the "Travancore contract" and supplemental to the principal contract of 1890), between the Secretary of State and the South Indian Railway Company, as to the construction, maintenance and working of the Travancore Branch.

Dated the 21st December 1910 (supplemental to the contracts of 1890 and 1901), between the Secretary of State and the South Indian Railway Company, modifying the contract of 1901.

Dated the 2nd October 1913 (known as the Quilon-Trivandrum extension contract and supplemental to the contracts of 1890, 1901 and 1910), between the Secretary of State and the South Indian Railway Company, as to the construction and working of the extension to Trivandrum.

Dated the 23rd April 1914 (supplemental to the contracts of 1890, 1901 and 1910), between the Secretary of State and the South Indian Railway Company, as to the adoption of the Government financial year for the preparation of accounts.

Main provisions of contracts-

- (ii) Government aid.—

 As under South Indian railway (3' 3\frac{3}{8}" gauge).

 (iii) Terms and working.—

 The line is worked by the South Indian Railway Company at the
- same proportion of its gross earnings of each half year as obtains
 (iv) Distribution of profits. on the whole of the South Indian Railway undertaking including the Travancore Railway. The net revenue receipts of the half year so arrived at, are then applied in the following manner and order:—
 - 1. In payment to the Secretary of State of interest,
 - (a) on debentures and debenture stock issued for purposes of the Travancore Branch, i.c., British and Indian State Sections, the line from Tinnevelly to Quilon;
 - (b) on moneys advanced by him under clause 7 of the Travancore Contract to meet the capital expenditure on the British (Tinnevelly-Shencottah) and Indian State (Shencottah-Quilon) Sections.

Note—The rate of interest to be charged on the Secretary of State's advances made for the discharge of Travancore Railway Debentures viz. £ 75,000 and £50,000 on the 3rd July 1924 and 3rd January 1926 respectively should be 5½ per cent. per annum (India Office letter No. P. W. 2616/26, dated 12th August 1926).

- 2. If the net revenue receipts are insufficient to meet the interest charges on the British and Indian State Sections referred to above, the deficiency is apportioned between the British Section and the Indian State Section including Quilon-Trivandrum Extension (section lying within the Indian State Territory) in proportion to the capital cost of these sections. The loss pertaining to the British Section is further distributed between the Secretary of State and the South Indian Railway Company in proportion to their respective profit sharing capital in the South Indian Railway undertaking for the half year. The Company's share of any such deficiency may be deducted by the Secretary of State from any moneys due to the Company under clause 60 of the South Indian Railway Principal Contract in respect of that half year (and if they are insufficient to make good the said share) from the moneys payable to the Company whether under the Principal or Supplementary Contract in respect of the next succeeding half year.
- As between the Sccretary of State and the Travancore Durbar, the latter has underwritten the guarantee of Interest liability to the extent of the capital cost of the Indian State Section (Shencottah-Quilon Section) therefore the loss pertaining to the Indian State Section is borne by the Travancore Durbar.
 - 3. Any balance after meeting the interest charges referred to above, is utilised towards the payment of interest charges on the capital outlay of Quilon-Trivandrum extension at 4 per cent. per annum. If the balance is not sufficient to meet the interest charges in full, the amount available is paid to the Durbar.
 - If however, the net revenue receipts are in excess of the interest charges on the capital outlay of the British and Indian State Sections and Quilon-Trivandrum Extension, the residue is termed "Surplus Profits".
 - The Surplus Profits so arrived at, as above, after meeting interest charges on British and Indian State Sections and Quilon-Trivandrum Extension, shall in the first instance, be apportioned between the Secretary of State and the South Indian Railway Company, in proportion to their profit-sharing capital in the South Indian Railway Undertaking at end of the half year. The share of the Secretary of State is divided between the Secretary of State and the Durbar in proportion to the mileages of the British Section (Tinnevelly-Shencottah) and Indian State Section including Quilon-Trivandrum Extension (Shencottah to Trivendrum Section lying within

14. SOUTH INDIAN RAILWAY SYSTEM-contd.

i) Travancore railway (British section) (3' 38" gauge)—concld. Main provisions of contract-contd.

the State) and the proportion pertaining to the Section within the State is credited to the Durbar.

4. The terms for working Chakai-Thambanur Extension are under consideration and pending their settlement, the net earnings of the extension provisionally apportioned on mileage basis between the Travancore Railway (Tinnevelly-Trivandrum Section) and the additional length due to the opening of the extension, less 5 per cent. of the earnings recoverable on account of hire of Rolling Stock, are being credited to Travancore Durbar towards interest on capital outlay spent by them on the extension.

(v) Rates and fares-

(vi) Special obligations as to the conveyance of-

(a) Mails, troops, police, high Government officials and Government stores.-

As under South Indian railway (3' 3%" gauge).

(b) Government bullion and coin and the persons in charge thereof. (vii) Services for any Department of the Travancore Durbar .-

(viii) Power of the Government to determine contract .-(ix) Power of the Company to surrander contract .-

As under South Indian railway (3' 33" gauge).

(x) Term of contract.

Statistics of working-

Note.—From the year 1936 37 the net arraings/working expenses of British section, have been arrived at after taking into account the 'Appropriation to Depreciation Reserve Fund' instead of actual expenditure on 'Replacements and Renewals' previously accounted for.

-	Mi	LEAGE	EUSPER OF EAC	CAPITAL OUT- INCLUDING RSE, TO END II YEAR, i.e.,			total capi.	INTEREST	CHARGES.	7	GAIN OR Le pertaining to year.			nings.
Year,	END	EN AT OF EACI YEAR.	I OPEN LINES WHOLL	ON (1) LINES , AND (11) PARTLY OR Y UNDER CON- RUCTION.	Gross earnings	Net earnings.	1 8 4			British	Section.	-	mile per week,	penses to ear
	British section.	India State sec- tion.		Indian State section,			Percentage of net-	British section.	Indian State section.	South Indian Italiway Company.	State.	Indian State Section.	Carnings per mil	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15 /
1902 1903 1904 1905 1906 1907 1909 1910 1911 1912 1et qr.	Miles. 19.050 49.50 50.48 50.48 50.48 50.48 50.41 50.41 50.41 50.41	0.43 57.98 57.98 57.98	Rs. 31,64,655 88,46,009 40,40,486 43,40,925 43,86,635 43,86,635 43,86,970 44,22,418 44,40,504 44,10,571	1,01,18,508 1,15,98,498 1,17,84,078 1,18,26,747 1,18,07,001 1,17,98,653	Rs. 47,210 1,63,379 3,05,764 4,86,757 4,97,643 5,97,098 6,42,977 0,50,048 6,80,080 7,66,515 8,15,945 1,10,831	99,038	0.24 0.71 0.96 1.55 1.37 1.88 1.88 2.14 2.37 0.45	Rs. 1,15,300 1,21,989 1,39,945 1,44,178 1,45,163 1,50,213 1,51,598 1,44,335 1,45,069 1,48,305 1,48,3147 37,049	Rs. 2,30,014 3,14,907 5,05,455 3,32,112 3,86,240 3,07,753 3,99,756 3,85,589 3,96,342 4,00,801 1,00,101	Rs. -15,590 -16,145 -13,234 -13,939 -10,259 -10,481 -9,034 -8,351 -3,904 -3,119 -1,191	Rs80,207 -80,817 -91,403 +5,038* -56,715 -51,438 -54,383 -52,838 -50,747 -40,957 -16,038	Rs. -2,30,014 -2,41,505 -2,78,157 -2,18,787 -2,38,270 -1,78,121 -1,68,055 -1,70,072 -1,05,550 -1,46,003 -1,19,551 -40,333	Rs. 81 101 85 86 88 106 114 115 121 136 145 136	44.84 41.14 51.03 43.78 55.29 43.91 43.90 54.00 54.00 55.07 55.07 61.68
1013 1013-	50.41	58.05	14,19,508	1,18,74,349	9,03,390	3,55,800	2-13	1,18,201	3,31,151	3,606	-21,821	68,125	160	60-62
14 1914-	50.41	58.05	43,62,872	1,27,03,873	8,92,082	2,65,752	1.58	1,48,458	4,03,606	-5,561	67,837	-2,12,914	159	70-21
15. 1015-	60.41	58.05	43,52,483	1,45,43,178	9,85,938	4,01,070	2.15	1,53,758	4,15,849	-3,494	32,181	1,32,862	175	59.32
16 1916 17.	50.41	58.05	43,72,052	1,53,72,846	10,27,354	4,18,755	2.12	1,88,565	5,35,782	-6,441	54,800	-2,44,350	182	59-24
1917- 18.	50.41	95.96	43,68,451	1,67,41,762	11,46,203	4,77,362	2.20	2,52,310	6,47,573	-4,878	2,32 376	-1,85,267	187	58-35
1918- 19.	50.41	95.98	43,67,536	1,68,15,180	15,11,462	8,05,578	3.80	1,07,778	4,78,755	••		+1,59,045	199	46.70
1919- 20.	50.41	95.96	43,67,890	1,70,36,807	18,44,613	7,40,650	3.40	1,55,859	4,27,225	+400	+5,142	+1,52,024*	242	59.35
1920- 21.	56.41	95.96	43,67,521	1,70,60,199	20,13,281	7,31,032	3.42	1,47,757	3,80,670	+0,679	+85,645	+1,05,181	265	63-64
	50.41	95.98	43,72,749	1,84,49,483	21,29,725	6,35,517	2.35	2,55,819	7,15,101	-2,502	2,78,931	1,53,970	280	74.86
1922- 23.	50-41	05.08	44,07,126	1,85,98,416	21,65,718	5,84,052	2.54	2,40,860	7,38,151	2,423	2,31,197	-1,58,845	285	78.04
	50.41	95.96	44,53,692	1,88,64,657	21,52,415	7,28,548	3.15	2,28,248	6,92,963	+1,302	-2,33,450	+39,485	283	66-15
	50-41	95.96	46,16,475	1,90,16,454	20,61,972	9,03,816	3.82	2,20,867	6,38,312	3,803	-2,01,141	+2,46,075	271	55-92
1925- 26	50.41	95.06	51,28,024	1,90,02,760	20,67,132	8,40,537	3.48	2,52,157	6,60,267	6,718	2,41,122	+1,63,480	272	59.34
1926- 27	50.41	95 ≠5	50,56,866	1,91,14,407	21,42,174	9,60,442	3.97	2,50,045	0,37,505	3,140	1,47,160	+2,16,012	281	55.17
28	50.42	95.96	50,99,875	1,92,17,351	21,06,786	7,95,300	3.52	2,51,673	6,58,587	133	-1,09,187	+84,360	277	62.25
1928- 29	50.42	95-98	52,55,202	1,92,20,020	19,12,839	7,09,135	3.26	2,70,775	7,02,374	}	2,36,269	+62,255	251	58-22
30		95*96	53,70,252	1,92,27,042	20,50,787	7,25,240	2.05	2,64,522	6,73,303	-349	-2,01,620	10,607	269	61.63
31		95-96	54,42,007	1,92,42,066	10,11,709	7,51,610	3.04	2,86,630	7,08,379	-1,097	-1,76,654	65, 648	250	60.68
32	51 • 17	97.97	54,49,844	(a)2,13,49,198	(6)17,04,815	(b)6,78,789	2.53	2,90,105	7,22,617	-1,261	-2,60,261	-72,411	221	60.18
1932- 33	50-33	97.64	54,52,824	2,18,21,156	16,79,871	7,20,366	2-64	2,88,948	7,81,826	1,046	-2,43,308	56,054	218	57-12
1933-		97.64	54,52,113	2,18,34,931	17,64,974	7,08,428	2.60	2,73,848	6,65,074	-177	2,30,058	259	229	59.86
35		97.64	54,61,247	2,19,32,258	17,42,052	7,06,248	2.28	2,53,571	5,87,636	464	-1,21,867	-12,630	226	59.46
1935-	50'33	97.61	54,65,955	2,19,26,765	15,87,497	5,51,544	2.01	2,47,248	5,74,793	-1,445	1,85,364	83,688	205	65*26
1936- 87	50.33	97.64	54,90,700	2,20,26,920	15,69,357	5,69,871	2.07	2,38,158	5,56,027	1,192	-1,53,470	69,652	203	63 - 69
(a)	Includ	or Dr. O	1 90 107 41			m1 1			<u>-</u>	<u></u>				

(c) Includes Rs. 21,20,197, the capital ontiay on Chakai-Thambanur Extension.

(b) Include the figures relating to Chakai—Thambanur Extension opened for traffic on 4th November 1931.

*Due, to abnormal increase in net earnings.

14. SOUTH INDIAN RAILWAY SYSTEM-contd.

(j) Travancore railway (Indian State section) (3' $3\frac{3}{8}$ " gauge)—

Progress in opening-

Sec	tions of	railwa	ıy.		Date of opening.	Miles.	Total.	Grand total.			
		1				·		 2	3	4	5
From Brirish frontier near She	ncottah	to Pu	nalu	ır.				26-11-04	29.43		
Punalur to Quilon	•					•		1-6-04	28-28	••	
Quilon to Chakai		•						1-1-18	36.51		
Chakai to Trivandrum Central	Grand	total	•		•	•	•	4-11-31 	3.42	67-64	97.64

Details of construction-

Permanent way.—The line from the frontier up to Quilon, is laid with 50 lb. bull-headed rails on cast iron pot sleepers except for a length of 22.50 miles, between Bhaghavathipuram and Punalur where there are Wooden sleepers of jarrah, irool and teak. The line between Quilon and Chakai is laid with 35 lb. flat footed Steel rails on hard wood sleepers. From Chakai to Trivandrum Central, it is laid with B.S. 50 lb. 'R' flat 60 bottomed steel rails on wooden sleepers.

Ballast.—The line is ballasted with granite, laterite, Screened gravel and laterite blinded with granite.

Fencing.—Only the main line is fenced at stations and at a few places where it runs close to village and public roads.

Curves.—The sharpest curve is of 477 feet radius.

Gradients.—The ruling gradient between Trivandrum Central and Punalur is 1 in 100 and between Punalur and Shencottah 1 in 50.

Contracts-

See under British section.

Statistics of working-

See under British section.

(k) Morappur-Hosur railway (2' 6" gauge) -

Progress in opening-

Sec	ions e	of rails	way.				Date of opening.	Miles.	Total
		1		 			2	3	4
Morappur to Dharmapuri .							18-1-06	18.53	
Dharmapuri to Hosur .			-	•			15-5-13	54.78	
				То	TAT,	٠			73-31

Details of construction --

Permanent-way.—The permanent-way consists of 30-lb. flat-footed steel rails laid on cross sleepers of pynkado.

Ballast.—The line is ballasted with stone in cuttings and moorum in banks with a stone covering broken to 2" gauge.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 955 feet radius.

Gradients.—The ruling gradient is 1 in 67.

Contracts-

The line is the property of Government. A portion of it, from Morappur to Dharmapuri, was worked on behalf of Government by the former Madras Railway Company up to the 31st December 1907. With effect from the 1st January 1908 it was made over to the South Indian Railway Company for maintenance and working as an integral part of their undertaking under the contracts noted under South Indian railway (3' 33" gauge).

The other portion, from Dharmapuri to Hosur, was constructed by the agency of the South Indian Railway Company from funds provided by the Secretary of State and as such, no portion of the capital expenditure on this section up to the date of its opening is debitable to the capital account of the South Indian Railway Company. The capital account up to the date of its opening is kept separate for the Government of India. This section, however, is worked and maintained by the South Indian Railway Company as part of their undertaking under the contract referred to in the previous paragraph.

14. SOUTH INDIAN RAILWAY SYSTEM-contd.

(k) Morappur-Hosur Railway (2' 6" gauge) -- concld.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14.)—

Note.—From the year 1936-37 the net earnings/working expenses have been arrived at after taking into account the 'Appropiation to Depreciation Reserve Fund' instead of actual expenditure on 'Replacement and Renewals' previously accounted for.

							.		
Year.		Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net carnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.	
					ъ			-	
			Miles.	Rs.	Rs.	Rs.		Rs.	
1913-14	•	•	73.40	30,32,268	1,19,739	2,887	0.10	31	79.59
1914-15	•	•	73.40	30,17,575	1,32,583	23,737	••	35	117.90
1915-16			73.40	30,11,243	1.54,913	7,411	0.25	41	95-22
1916-17	•	:	73.40	29,90,738	1,71,451	14,600	0.49	45	91.48
1917 18	•		73.40	29,99,582	1,80,454	1.170	0.04	47	99.35
1918 19	•		73.40	30,14,560	1,82,696	-21,323		48	111.67
1010 10	•	-		,	-,,				
1919-20			73.30	30,06,951	2,31,792	19,179	.,	61	108.27
1920-21			73:30	31,83,958	2,17,716	-1,34,937		57	161.98
1921-22			73.30	32,52,369	2,37,836	-92,280		62	138.80
1922-23			73.30	33,76,034	2,62,399	-93,182	••	69	135.51
1923-24			73.30	33,79,341	2,45,112	-29,868	.,	64	112 • 19
1924-25			73 · 30	33,63,297	2,35,640	32,831		62	113.93
1925-16			73.30	33,47,641	2,46,961	-1,09,653		65	144.40
1916 27			73.30	33,32,698	2,28,111	99,988	••	60	113.83
1927-28	•		73 • 30	33,29,606	2,57,721	-45,008		68	117.46
1928-29			73.30	33,45,627	2,57,020	-55,889	••	67	121.74
1929-30	•	•	73 • 30	33,35,195	2,50,276	82,718	••	66	133.05
1930-31	•		73.30	33,33,218	2,30,226	87,044	••	60	137.81
1931-32		•	73.30	33,37,662	1,96,980	1,08,738	••	51	155.20
1932-33			73.30	33,28,086	1,75,152	-1,11,038	••	46	163·40
1933-34	•	•	73.31	33,32,100	1,47,642	-1,05,330	••	39	171 • 34
1934-35	٠	•	73.31	33,17,946	1,49,414	-1,00,229	••	39	167.08
1935-36	•	•	73.31	33,18,471	1,32,922	-1,34,523	••	35	201 · 20
1936-37	•	•	73.31	33,17,425	1,78,099	-1,89,130	••	47	206 • 19
						1	l		

(l) Tirupattur-Krishnagiri Railway (2' 6" gauge)-

Progress in opening-

Section of railway.	Date of opening.	Miles.	Total.
1	2	3	4
Tirupattur to Krishnagiri	18-9-05	25.38	25•38

Details of construction-

Permanent-way.—The permanent-way consists of 30-lb. flat-footed steel rails laid on cross sleepers of Malabar teak.

Ballast.—The line is ballasted with stone in cuttings and moorum in banks with a stone covering broken to 2" gauge.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 955 feet radius.

Gradients.—The ruling gradient is 1 in 67.

Contracts-

The line is the property of Government, on whose behalf it was worked by the former Madras Railway Company up to the 31st December 1907. With effect from the 1st January 1908 it was made over to the South Indian Railway Company for maintenance and working as an integral part of their undertaking under the contracts noted under South Indian railway (3' 3\frac{3}{8}" gauge).

14. SOUTH INDIAN RAILWAY SYSTEM-concld.

(1) Tirupattur-Krishnagiri railway (2' 6" gauge)—concld.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix I to the Report for 1913-14.)—

Note.—From the year 1936-37 the not earnings/working expenses have been arrived at after taking into account the 'Appropriation to Depreciation Reserve Fund' instead of actual expenditure on 'Replacements and Renewals' previously accounted for.

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net carnings. 5	Percentage of net carnings on total capital outlay given in column (3).	Earnings per mile per week.	Proporti on of expen ses to earnings
1913-14 1914-15 1915-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27 1927-28 1928-29 1929-30 1930-31 1931-32 1932-33 1933-34 1934-35 1935-36 1936-37	Miles. 25-38	Rs. 11,13,720 11,55,650 11,28,324 11,02,702 10,99,385 11,08,589 10,76,804 10,77,723 10,92,677 11,23,542 10,88,328 10,74,186 10,84,612 10,77,425 10,74,854 10,83,753 10.72,642 10,72,865 10,78,058 10,684,82 10,71,722 10,71,722 10,71,725 10,71,725 10,71,725 10,71,725 10,71,758 10,72,632	Rs. 60,912 65,459 68,245 77,787 92,251 61,826 84,908 87,614 89,621 1,00,334 1,01,382 95,449 1,07,813 1,10,264 1,13,155 1,09,664 1,24,005 1,13,268 1,06,245 87,488 76,521 78,633 64,738 76,666	Rs5,583 5,139 16,248 20,163 20,306 -5,489 -2,53 -4,630 -42,041 -18,857 -32,307 -1,556 -5,205 -21,764 -9,236 -6,778 13,014 -24,331 -23,059 -39,546 -42,964 -48,057 -45,699 -50,034	0.44 0.44 1.47 2.34 2.39 	Rs. 46 50 52 59 70 47 66 68 76 77 72 82 84 86 83 94 86 80 66 58 59 49 58	109·17 92·15 76·19 66·37 71·48 108·88 100·30 105·28 146·91 118·79 131·87 101·63 104·82 119·74 108·16 106·18 88·78 121·48 121·70 145·20 156·15 161·12 170·59

(m) Golden Rock-Sircarpalayam (2'-0" Gauge) Tramway Lines.

PROGRESS IN OPENING.

Section of Railway.	Date of opening. 2	Miles.	Total.	Remarks. 5
Golden Rock-Sircar- palayam (Tramway Line).	1923	2 · 827	2.827	This track does not serve any kind of traffic except for lorrying materials to the pumping station at Sircarpalayam and carrying by trolly Inspecting Officials of the Company.

Details of Construction. .

Permanent Way.—The permanent way consists of 18 feet 18 lb. F.F. rails laid on steel transverse sleepers at 5 sleepers per rail length fixed with clips and bolts except at level crossings and girder bridges where they are laid on wooden sleepers with dog spikes.

Ballast.—The ballast is only earth and moorum.

Fencing.—The line is unfenced throughout.

Curves.—The sharpest curve is of 716 feet radius except one of 57 feet radius within the Sircarpalayam water works area.

Gradients.—The ruling gradient is 1 in 50.

CLASS II RAILWAYS.

With gross earnings of less than Rs. 50 lakhs, but over 10 lakhs a year.

1. BARSI LIGHT RAILWAY (2' 6" gauge)-

Chairman.-Sir E. A. S. Bell, Kt., C.I.E.

Secretaries .- W. A. Browne & Co.

Offices.-Winchester House, Old Broad Street, London, E. C. 2.

Date of registration of the Company .- 11th July 1895.

Progress in opening-

Sections of rai	way.					Date of opening.	Miles.	Total.	Grand total.
1						2	3	4	5
Main Line— Kurduvadi to Barsi Town .				•		1-3-07	21.59	21.50	
Extensions in British territory— Barsi Town to Kuslamb Kuslamb to Tadwale .	:	:	:	:	:	15-6-05 1-5-06	6:34 20:36	26.70	
Kurduvadi to a point 1.78 miles f A point 1.78 miles from Pandharp Town	rom P our To	andha wa to	rpur Pand	Town harpui		2-12-06	30.71	20 10	
Tadwala to Hyderabad Frontier	•	•		•		1-5-11	1.00	32.49	
Extension in Nizam's territory— Hyderabad Frontier to Latur		•				1-5-11	35.87	35-87	117-65
Candharpur to Mizaj	•					3.11.27	81.02	84-02	81.02
	Tot	al ope	ո տվ	eng.					202-57

Details of construction-

Permanent-way.—The permanent-way consists of 35-lb, flat-footed steel rails on steel sleepers.

Bullast.—The line is ballasted with stone and moorum.

Fencing.—The line is unfenced, except at station yards and for a short distance on either side of level crossings and at a few bridges.

Curves.—The sharpest curve is of 425 feet radius.

Gradients.—The ruling gradient is 1 in 100. There are, however, two steeper gradients on the original line (from Kurduvadi Junction to Barsi Town)—one of 1 in 89 and one of 1 in 90; and two on the Tadwale Extension—one of 1 in 50 and the other of 1 in 70.

Contracts and agreements-

Contract, dated the 1st August 1895, between the Secretary of State and the Barsi Light Railway Company, as to the construction, maintenance and working of the line from Kurduvadi Junction to Barsi Town (called "the Barsi Town Railway").

Contract, dated the 26th August 1902, between the Secretary of State and the Barsi Light Railway Company, as to the construction, maintenance and working of "the Pandharpur Extension" and "the Tadwale Extension", as modified by letter from the India Office to the London Board of the Barsi Light Railway Company, No. P. W.-1020, dated the 22nd June 1904, extending to 1944 the term at the end of which the option of purchase of the Company's undertaking may be exercised by the Government under clause 59 of the contract.

Contract, dated! the 28th May 1903 (supplemental to those of 1895 and 1902), between the Secretary of State and the Barsi Light Railway Company as to the adoption of 1s. 4d. as the "prescribed" rate of exchange.

Contract, dated the 4th December 1905 (supplemental to that of 1902), between the Secretary of State and the Barsi Light Railway Company, as to the construction, maintenance and working of the Pandharpur and Tadwale Extensions, and for the issue of Debenture Stock.

Contract, dated the 31st March 1909 (supplemental to the contracts of 1902, 1903 and 1905), between the Secretary of State and the Barsi Light Railway Company, as to the construction, maintenance and working, and the inclusion in "the Tadwale Extension," of the railway from Tadwale to the frontier of the Hyderabad State (called "the Hyderabad Frontier Extension"), near Latur in that State.

Agreement, dated the 21st April 1909, between the Government of His Exalted Highness the Nizam of Hyderabad and the Barsi Light Railway Company, as to the construction, maintenance and working of a railway from the frontier of the Hyderabad State to Latur in that State, known as the Latur extension.

1. BARSI LIGHT RAILWAY (2' 6" gauge) -contd.

Contracts and agreements-concid.

- Agreement, dated the 4th May 1909, between His Exalted Highness the Nizam's Guaranteed State Railways Company and the Barsi Light Railway Company, as to the former waiving, in favour of the latter, its preferential right to construct and work the railway from the frontier of the Hyderabad State to Latur in that State known as the Latur extension.
- Contract, dated the 7th October 1913 (supplemental to the contracts of 1902, 1903, 1905 and 1909), between the Secretary of State and the Barsi Light Railway Company, as to the extension of the Company's existing line from Barsi town to Pandharpur station on the north bank of the Bhima river to the town of Pandharpur.
- Contract, dated the 24th February 1914 (supplemental to the contracts of 1895, 1902, 1903, 1905, 1909 and 1913), between the Secretary of State and the Barsi Light Railway Company, as to the adoption of the Government Financial year for the purposes of accounts.
- Contract, dated the 8th August 1916 (supplemental to the contracts of 1902, 1903, 1905, 1909, 1913 and 1914), between the Secretary of State and the Barsi Light Railway Company, as to the proposed construction and working of railways from Pandharpur to Lonand and Miraj.
- Contract, dated the 19th September 1917 (supplemental to the contract of 1895), between the Secretary of State and the Barsi Light Railway Company, whereby the Company is released in part from liability for maintenance and repair of provincial road on surrender of right to manage and appropriate collection of tolls on the said road.
- Contract, dated the 16th October 1917 (supplemental to the contracts of 1895, 1902, 1903, 1905, 1909, 1913, 1914, 1916 and 1917), between the Secretary of State and the Barsi Light Railway Company by which (subject to certain reservations) the date for the first possible determination of the Company's contract for those portions of the line which are in British territory is extended from 1944 to 1954.
- Contract, dated the 24th May 1921 (supplemental to the contracts of 1902, 1903, 1905, 1909, 1913, 1914, 1916 and 1917), between the Secretary of State and the Barsi Light Railway Company, modifying with effect from the 10th March 1921, clause 27 of the contract, dated the 26th August 1902 relative to goods rates.
- Contract, dated the 2nd July 1924 (supplemental to the contracts of 1895, 1902, 1913 and 1921, and in cancellation of the contract of 1903), between the Secretary of State and the Barsi Light Railway Company, as to the variation of rates and fares, abolition of pontage charges over Bhima River bridge, compiling accounts and statistics annually instead of half-yearly and the rate of exchange.
- Contract, dated the 8th December 1932 (supplemental to the Contract 1st August 1895 and Indenture dated 26th August 1902 and nine others), between the Secretary of State and the Barsi Light Railway Company, regarding altering the terms of final payment to be made in purchase of the line from paid up capital to capital expenditure and also in regard to altering the date (subject to some reservations) for the first possible termination of the contract from 1954 to 1949 or 1954.

Main provisions of contracts and agreements-

- (i) Land.—In the case of the main line the Company are allowed the use of part of the road between Barsi Town and Kurduvadi Junction station, any land required outside the road being acquired at the expense of the Company. For the extensions, land in British territory has been provided by the British Government; that in the Hyderabad State by the Government of His Exalted Highness the Nizam, free of cost to the Company.
- (ii) Government aid .- Nil.
- (iii) Distribution of profits.—The whole to go to the Company.
- (iv) Rates and fares.—(a) Are such as are within the maximum and minimum fixed by the Secretary of State who shall prescribe the classification and description; (b) Secretary of State shall give not less than 3 months' notice in writing prior to any change being made in the rates, except in the case of a public emergency, when shorter notice may be given; (c) no rebate or reduction shall be granted by the Company which will have the effect of bringing the rate actually paid below the minimum without the sanction of the Secretary of State; and (d) pontage charges abolished from 1st October 1923.
- (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—) To be conveyed upon the exten-
 - (b) Government bullion and coin, and the persons in charge thereof.— Sions in British territory at the same rates and fares, and on the same general condition as may be in force on State railways. On the main line, except services for the Postal Department which are rendered at the same rates and fares and on the same general conditions as may be in force on State railways, no special provision is made for the conveyance of troops, police, high Government officials, etc. The Company have since agreed to carry Military traffi

1. BARSI LIGHT RAILWAY (2' 6" gauge)-concld.

Main provisions of contracts and agreements-concld.

over the main line at the same rates and fares as are in force on the extensions under the special contracts relating to them (vide Agent's letter No. 1471, dated the 20th October 1917). On the extension in the Nizam's territory, mails and postal officials of the Nizam's Government and the Government of India are carried free of charge. Troops, police, high Government officials, etc., of the two Governments are conveyed at special rates.

- (vi) Power of the Government to determine contract.—The Government may determine the contract on the 1st January 1944, or at the expiration of any subsequent period of 10 years, by giving 12 months' notice. But if the projected lines from Pandharpur to Lonand and Miraj, respectively, shall be duly constructed by the Company in accordance with the terms of the contract, dated the 8th August 1916, the first date on which the Company's contracts may be terminated shall be altered from the 1st January 1944 to the 1st January 1951. If, however, the Pandharpur Lonand extension shall not be duly constructed by the Company, the Secretary of State may, on giving the company 12 months' notice, purchase the undertaking on 1st January 1949. Whether there shall be such failure or not, the Secretary of State may, on giving the Company 12 months' notice, purchase the Undertaking on 1st January 1951 or any subsequent periods of 10 years. If the contract is so determined, the Government to pay the Company in England in sterling a sum such as, when added to any unspent capital, shall amount to the total paid-up capital expended with the authority of the Government. His Exalted Highness the Nizam's Guaranteed State Railways Company have the option of purchasing the length of the line (excluding rolling stock, workshop machinery and stores) from the frontier of the Hyderabad State to Latur in that State, subject in all respects to the rights of the Nizam's Government under the agreement between His Exalted Highness' Government and the Barsi Light Railway Company and also under the several contracts between that Government and the Nizam's Guaranteed State Railways Company, after the expiration of 20 years from the date of its opening throughout for traffic, on giving 12 months' notice, at a price which shall be 5 per cent. in excess of the actual capital expenditure. In the event of His Exalted Highness the Nizam's Guaranteed State Railways Company not exercising this right, His Exalted Highness the Nizam's Government have the right, on giving 12 months' notice, to purchase the same line at any time after the expiration of twenty years from the date of its opening, at a price which shall be 5 per cent. in excess of the actual capital expenditure.
- (vii) Power of the Company to surrender contract .- Nil.
- (viii) Term of contract [if not determined under (vi)].-Not specified.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14.)—

	wholly under construction.		earnings.	net carnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
2	3	4	5	6	7	8
Miles. 115:84	Rs. 71,46,903	Rs. 13,18,673	Rs. 8,46,882	11.85	Rs.	
115.84	79,83,731	11,17,797	6,28,070	7.87	219 186	35·35 43·81
117.50	85,69,232	10,66,669	5,96,646	6.96	175	44.06
117.50	85,47,191	11,24,923	6,44,262	7.54	184	42.73
117.50	86,02,814	8,60,524	4,15,205	4.83	144	51.75
117.50	86,28,186	10,10,444	5,23,007	8.00	169	48.24
117.50	86,22,046	15,95,756	9,87,956	11.46	266	38.00
117.50	87,11,340	14,31,896	7,70,133	8.84	241	46-22
117.50	88,50,551	14,40,516	7,10,583	8.03	245	50.67
117.50	80,54,648	18,13,619	9,78,455	10.03	297	46.05
117.50	90,70,770	18,61,895	9,53,031	10.50	311	48.90
117.65	04,27,684	17,79,805	8,92,897	9.47	303	49.83
117.65	93,23,492	17,97,600	8.74,888	9.38	306	51.33
117.65 117.55	1,49,65,366	17,49,585	7,99,989	5.35	297	51.27
202.57	1,67,65,967	18,66,622	9,30,288	5.55	311	49.84
202-57	1,72,01,062	25,29,028	11,36,817	6.61	239	££.62
202.57	1,75,61,743 1,85,31,992	25,62,696	11,85,408	6.75	243	53.74
202.57	1,85,97,279	20,05,024	7,27,656	3.02	190	65.27
202.57	1,87,00,667	20,32,091	7,33,353	3.94	193	63.61
		19,35,032	7,07,607	3.78	184	63.43
						59.69
202.57						62.65
202.57						58·91 70·82
	202·57 202·57 202·57	202 · 57	202·57	202·57 1,86,69,485 20,02,325 8,07,095 202·57 1,86,50,451 18,10,335 6,76,085 202·57 1,86,03,615 19,26,216 7,91,486	202·57 1,86,69,485 20,02,325 8,07,095 4·32 202·57 1,86,50,451 18,10,335 6,76,085 3·62 202·57 1,86,03,615 19,26,216 7,91,486 4·25	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

2. BENGAL DOOARS RAILWAY SYSTEM.

Chairman.—Sir Henry Parsall Burt, K.C.I.E., C.B.E.

Secretary .- F. J. Horne, Esq.

Offices.—210-216, Gresham House, Old Broad Street, London, E.C. 2.

Date of registration of the Company. -30th July 1891.

Lines comprised in the system.—The Bengal Dooars railway system is made up of—

		•	Open Line.	Under construction or sanctioned for construction.	
			Miles.	Miles.	Miles.
(a) Bengal Dooars railway (3' 3% gauge)			39.50		39.50
(b) Bengal Dooars railway extensions (3' 33" gauge)			. 121.16	• •	121 · 16
	Total		160.66	••	160-66

The lines were constructed for opening out the Western Dooars and for the development of the tea industry.

(a) Bengal Dooars railway (3' 33" gauge)-

Progress in opening ...

Sections of railway	Date of opening.	Miles.	Total.	Grand total.
1	2	3	4	5
Main line—				
East Bank of the Teesta (Barnes Ghat) to Domohani (Abandoned in 1931).	15-1-93	••	:	ļ
Domohani to Dam Dim	15-1-93	25.69		
Mile 66 to Domohani	30-7-31	2.71		
Branch Lines-			28·40	
Lataguri Junction to Ramshai	11-6-93	5-59		
Domohani to Barnes Ghat	1-6-33	5.21	11.10	
Total				39.50

Details of construction-

Permanent-way.—The line is laid with 41½-lb. flat-footed steel rails on sal sleepers with the exception of 15.85 miles which are laid with 50 lbs. section rails.

Ballast.—The line is ballasted throughout with stone.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 1,432 feet radius.

Gradients.—The ruling gradient is 1 in 150.

Contracts and agreement—

Contract, dated the 27th April 1891 (called the principal contract), between the Secretary of State and Messrs. Octavius Steel and Company, Promoters, Bengal Dooars Railway Company, as to the construction, maintenance, management and working of the Bengal Dooars Railway Company's original line, including the ferries connected therewith.

Agreement, dated the 27th April 1891, between the District Board of Jalpaiguri and Messrs. Octavius Steel and Company, Promoters, Bengal Dooars Railway Company, as to the payment of a subsidy by the Board to the Company.

Contract, dated the 2nd March 1898 (supplemental to the contract of 1891), between the Secretary of State and the Bengal Dooars Railway Company, as to the construction, management, maintenance and working of certain extensions of the Company's then existing railways.

Contract, dated the 27th September 1900 (supplemental to that of 1898), between the Secretary of State and the Bengal Dooars Railway Company, as to the extension of time for the completion of the line to Hantupara.

Contract, dated the 7th November 1901 (supplemental to those of 1898 and 1900), between the Secretary of State and the Bengal Dooars Railway Company, as to the extension of time for the completion of the line to Bagrakote.

Contract, dated the 16th April 1903 (supplemental to the contract of 1898), between the Secretary of State and the Bengal Dooars Railway Company, as to the adoption of 1s. 4d. per ruper as the "prescribed" rate of exchange.

2. BENGAL DOOARS RAILWAY SYSTEM-contd.

(a) Bengal Dooars railway (3' 33" gauge)-contd.

Contracts and agreement-concld.

- Contract, dated the 1st May 1914 (supplemental to the contract of 1898), between the Secretary of State and the Bengal Dooars Railway Company, as to the adoption of the Government financial year for the preparation of Accounts.
- Contract, dated the 6th July 1916 (supplemental to the contract of 1898), between the Secretary of State and the Bengal Dooars Railway Company, as to the construction, management, maintenance and working of the Chalsa-Metelli Extension as a part of the undertaking.
- Contract, dated the 21st April 1927 (supplemental to those of 1891 and 1898), between the Secretary of State and the Bengal Docars Railway Company, as to the compiling accounts and statistics annually instead of half-yearly and as to rate of exchange and maximum rates and fares.
- Contract dated the 15th February 1934 (supplemental to the contract of 1927), between the Secretary of State and the Bengal Dooars Railway Company, as to the alteration in the rates in the contract of 1927.

Main provisions of contracts and agreement-

- (i) Land.—Provided by the Government free of cost to the Company.
- (ii) Government aid.—Original line and Extensions: Nil. (It is, however, provided that, on the request of the Company, the Government shall take over the original line and extensions, and shall work and maintain them through the agency of the Eastern Bengal railway, at 40 per cent. of the gross receipts in each half-year, paying the remaining 60 per cent. over to the Company.)
- Note.—Original line: The District Board of Jalpageri agree to pay to the Company, out of the District Fund, an annual subsidy of such amount, not exceeding Rs. 4,000, as may be required to make up the net profits of the original line in each year to 5 per cent- on the capital sum expended.
- (iii) Terms of working.— The whole of the profits to go to the Company. (If, on a request (iv) Distribution of profits.— I made by the Company, the lines be worked by the Eastern Bengal Railway the Government retain in each half-year 40 per cent. of the gross earnings, the remaining 60 per cent. being paid to the Company after deduction of the income-tax payable to Government.)
 - (v) Rates and fares.—For the Northern Section (Maynaguri Road to Dam Dim, including the branch from Lataguri junction to Ramshai, Dam Dim to Bagrakote, Mal Junction to Madarihat, including the branch from Chalsa Junction to Matelli):—Certain maxima and minima rates and fares for goods and passengers have been fixed. All other coaching traffic is carried at double the rates approved from time to time by the Indian Railway Conference Association. For the Southern Section (Lalmanirhat Junction to Maynaguri Road):—Goods are carried within the maximum and minimum rates approved by the Indian Railway Conference Association. Passengers are carried under the same schedule of maximum and minimum fares as applies on the Eastern Bengel Railway. All other Coaching traffic is carried at the rates approved from time to time by the Indian Railway Conference Association.
- (vi) Special obligations as to the conveyance of .-
 - (a) Mails, troops, police, high Government efficials and Government stores.—Mails to be carried under the same terms and conditions as mails were at the date of contract of 1891 being carried on the Eastern Bengal Railway, the Government having power to fix the timing of one train each way daily for the carriage of mails. Postal officials travelling on duty to be given free passes.
 - (b) Government bullion and coin, and the persons in charge thereof.—Not specified.
- (vii) Power of the Government to determine contract.—If the Company fail to work the Original line and the Extensions for six consecutive months, the Government may determine the contract by paying to the Company a sum equal to their actual expenditure up to the date of notice.

The Secretary of State has the right to purchase the Original line and the Extensions on the 31st December 1919, and at the end of any succeeding seventh year, by giving 12 months' previous notice. In the event of such purchase the price to be paid for the Original line is to be a cash payment of one and two-fifths of the amount of the invested capital liabilities of the Company; while the price for the Eastern, Southern and Western Extensions is to be a cash payment in England in sterling of a sum equal to 25 years' purchase of the average of the net earnings of the Extensions during the last preceding 5 years, provided that such sums shall not exceed by more than 20 per cent., nor be less than, the total capital expenditures and capital liabilities of the Company in sterling as expended on the Extensions or incurred with the sanction of the Government.

NOTE.—The Secretary of State did not exercise his right of purchase at the end of 1919, 1926 and 1933.

- (viii) Power of the Company to surrender contract .- Nil.
 - (ix) Term of contract.-None specified.

2. BENGAL DOOARS RAILWAY SYSTEM-contd.

(a) Bengal Dooars railway (3' 3\" gauge)-concld.

Statistics of working-

	working—									
Yesr.	Mileage open at end of each year.	Total capital out- lay, including suspense, to end of each year, i.e., outlay on (i) lines open, and 'ii) lines partly or wholly under construction.	Gross earnings	Net carnings.	Percentage of net earnings on total capital outlay given in column (3).	Subsidy from District Board.	Total income.	Percentage of total income on total capi- tal outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1 .	2	3	4	5	G	7	8	9	10	11
	Miles	Re.	Rs.	Rs.		Rs.	Rs.		Rs.	
1893 . 1894 . 1895 .	36·40 36·40 36·40	18,49,091 22,84,223 23,26,476	1,14,812 2,05,286 2,53,537	57,639 1,01,291 1,27,459	3·12 4·57 5·48	4,000 4,000	<i>5</i> 7,639 1,09,291 1,31,459	3·12 4·74 5·65	69 109 125	49·80 49·20 49·73
1806 1897 1898 1899	36·40 36·40 36·40 36·40 36·40	21,33,213 25,78,562 20,68,050 20,26,748 20,42,695	2,70,451 2,86,407 2,69,089 2,73,038 3,32,730	1,31,814 1,45,289 1,14,620 1,18,417 1,89,460	5·42 5·63 4·30 4·51 7·17	4,000 4,000	1,31,814 1,45,289 1,18,620 1,22,417 189,460	5·42 5·63 4·45 4·66 7·17	136 145 135 137 163	51·26 49·27 57·40 56·63 43·06
1901 . 1902 . 1903 . 1904 . 1905 .	36·40 36·40 36·40 36·40 36·40	26,44,873 26,50,627 26,03,517 26,61,642 27,26,891	3,10,920 2,73,310 3,11,131 3,46,277 3,70,313	1,76,399 1,71,455 2,21,952 2,56,651 2,49,598	6-67 6-47 8-35 9-63 9-15	.::	1,76,399 1,71,455 2,24,952 2,56,651 2,49,598	6.67 6.47 8.35 9.63 9.15	156 144 156 175 198	43.27 37.27 27.70 25.88 32.60
1906 1907 1908 1909 1910	36·40 36·40 36·40 36·40 36·40	27,33,098 27,56,535 27,70,347 28,40,531 29,73,769	4,08,623 4,20,705 4,37,252 4,46,811 4,86,375	2,96,703 2,81,722 3,31,102 3,51,527 3,73,313	10.86 10.33 12.02 12.48 12.55		2,96,703 2,84,722 3,34,102 3,54,527 3,73,343	10.86 10.33 - 12.02 12.48 12.55	218 222 231 236 257	27-39 32-63 43-59 20-65 23-24
1911 . 1912 .	36·40 36·40	31,18,331 31,71,512	4,91,386 5,41,376	3,86,765 4,16,170	12·40 13·12	::	3,86,765 4,16,170	12·40 13·12	261 286	21·76 23·13
Jat qr. of 1913 . 1913-14 . 1914-15 .	36-40 36-40 36-40	31,76,934 32,04 393 33,37,555	1,13,010 5,91,202 5,76,739	77,510 4,36,529 4,21,603	2·44 13·62 12·63	::	77,510 4,36,529 4,21,605	2·44 13·62 12·63	239 312 305	31·41 26·15 26·90
1918-16 . 1916-17 . 1917-18 . 1918-19 . 1918-19 . 1920-21 . 1921-22 . 1922-23 . 1923-24 . 1923-24 . 1923-24 . 1923-23 . 1923-2	36-40 36-40 36-40 36-40 36-40 36-40 36-40 36-40 36-40 36-40 36-40 35-23 35-04 35-04 35-04 35-04 35-04 35-04 35-05 35-50 39-50	33,16,175 33,16,000 33,14,912 32,01,039 33,22,578 33,67,100 33,82,591 31,27,088 31,98,657 33,67,100 25,83,001 26,86,677 28,66,120 40,90,229 41,42,050 41,63,061 40,00,823 42,43,381 43,00,555 43,89,416 44,49,309	6,06,381 6,61,348 6,72,671 6,72,671 6,75,671 5,66,8323 6,61,858 7,51,019 7,96,066 7,51,323 8,41,833 8,41,836 8,73,77 7,71,776 6,16,868 6,20,018 6,45,102 6,45,102 6,73,041 6,05,23 5,03,091	1,01,307 4,68,248 5,12,103 5,21,123 5,21,335 4,24,04 3,24,218 3,44,106 3,49,039 3,51,673 3,11,75	11-70 11-32 11-78 13-51 10-45 13-61 13-61 13-61 13-67 13-90 13-59 12-77 10-24 7-80 8-41 8-21 8-21 8-21 8-77		4,47,087 4,87,485 1,74,792 4,86,90) 4,49,980 3,51,273 3,08,276 4,01,311 4,08,723 5,51,105 1,94,367 4,68,24 5,12,400 6,24,124 5,21,33 4,24,214 3,44,100 3,49,03 3,51,67 2,39,41	14-78 13-51 10-45 9-16 13-64 14-55 15-75 13-90 13-90 13-90 13-50 13-90 13-50 13-90 13-50 13-90 13-50 1	401 417 463 456 486 423 355 35 35 31 32 20	25-44 27-64 21-35 36-01 39-35 30-51 30-78 32-84 38-50 43-93 41-12 45-00 45-00 45-40 45-40 45-40 48-49

(b) Bengal Dooars railway extensions (3' 3\frac{3''}{8}'' gauge)—
Progress in opening—

Section	a of ini	ilway.					Date of opening.	Milea.	Total.	Grand tota
	i						2	3	4	5
utern extension-	*]
Mal Jn. to Chalsa Jn						.	1-4-01	5.12		}
Chalsa Jn. to Chengmari.						.	1-1-03	13.21		
Chengmari to Dalgaon .						. 1	23.3.03	15.53		1
Dalggon to Madarihat						. 1	14-6-03	9.42		1
Chalsa Jn. to Metelli							10-0-18	5.23		
outkern extension-						- 1			48.81	
Barnes Junction to Mile 61	A /Aba	ndone	d in	1931)			20-4-00	••		1
Mile 66 to Mile 614 .		_					30-7-31	4.52		i
Mile 611 to Baura	-	-	-		·		20-4-00	23.57		
Baura to Bhotemari			Ĭ.				21-10-00	16.76		1
Bhotemari to Lalmanirhat	•	·	·	•	•		20-11-00	20.83		1
Dhotellatt to 12thamilian	•	•	•	•	•	•			65.68	
eatern extension-							· /	ļ		ł
Dam Dim to Oodlabari .							1-5-01	2.81		i
	•	•	٠	•	•	•	1-1-02	3.86	1	1
Oodlabari to Bagrakote .	•	•		•	•	•	192-02		6.67	l l
			•	•			(_	İ	l
		Δ		TOTAL						121 · 1

Details of construction-

Permanent-way.—The line is laid with 411-lbs flat-footed steel rails on sal sleepers, with the exception of 16-94 miles which are laid with 50 lbs. section rails.

Ballast. -The line is ballasted with stone except the Chalsa-Metalli section which is ballasted with sand.

2. BENGAL DOOARS RAILWAY SYSTEM-concld.

(b) Bengal Dooars railway extensions (3' 33" gauge)—concld.

Details of construction-concld.

Fencing.—The line is unfenced, except at stations.

Curves .- The sharpest curve is of 818 feet radius on the Chalsa-Metelli section.

Gradients.—The ruling gradient of the Southern extension is 1 in 200, of the Eastern and Western extensions 1 in 100 and of the Chalsa-Metelli section 1 in 40.

Contracts and Agreements— Main provisions of contracts and agreements— } As noted under Bengal Dooars railway (3' 3% gauge).

Statistics of working -

Year.	Milenge open at end of each year.	Total capital out- lay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction,	Gross carnings.	Net eatnings.	Percentage of net enrings on total capital outlay given in column (3).	Larnings per milo per week.	Proportion of expenses to earnings.	ПЕНАПЕЯ. О
1900	Miles. 66-00 74-30 77-78 110-56 110-5	R4. 47,11,632 62,26,954 72,66,165 80,10,365 84,97,672 87,92,080 89,99,616 90,76,826 90,88,887 91,36,146 92,06,724 93,43,461 94,43,641 94,82,328 95,55,500 99,98,430 1,05,48,389 1,07,40,183 1,08,54,886 1,10,04,232 1,11,96,431 1,11,76,911 1,12,20,546 1,12,84,561 1,12,84,561 1,12,84,561 1,12,84,561 1,12,38,383 1,30,6,995 1,14,03,842 1,16,82,551 1,17,14,403 1,20,56,893 1,21,38,172 1,22,64,746 1,22,70,015 1,21,03,200 1,21,26,199 1,21,42,727 1,21,66,417 1,21,69,396	Rs. 16,191 1,76,359 2,53,631 3,46,666 4,15,179 5,12,343 5,83,852 6,01,133 6,16,072 6,08,419 6,68,433 7,07,730 8,02,405 2,09,414 10,49,660 10,21,995 10,35,813 11,09,183 10,72,858 11,63,762 11,63,762 11,49,334 13,02,360 14,67,818 14,93,782 15,82,374 16,67,322 17,01,440 18,52,708 16,67,322 17,01,440 18,52,708 16,52,708 13,83,667 12,48,310 12,25,558	70,100 1,08,680 1,07,824 2,01,256 1,43,685 3,14,228 3,14,611 3,45,726 3,60,021 5,01,116 1,06,083 5,55,144 5,00,685 5,08,666 5,16,134 5,01,311 5,47,617 6,47,617 6,32,774 6,41,769 7,01,224 7,46,045 7,75,832 6,38,420 4,80,003 4,81,607 4,70,078 5,16,040 3,00,359 3,01,190	0.00 1.28 2.25 1.58 3.44 3.75 3.48 3.48 3.48 3.48 4.02 5.13 5.12	Ra. 14 47 03 61 68 85 96 90 102 100 100 117 147 138 173 169 171 183 177 185 185 185 185 185 205 201 205 270 291 204 201 216 220 198 104	72-32 60-92 65-93 65-78 73-85 61-39 50-10 70-23 49-31 48-26 47-49 49-13 49-34 49-34 49-34 50-13 50-13 50-13 50-14 61-85 51-85 51-85 61-85	The net carnings for 1900, 1901, 1902 and 1st half of 1903 were credited to interest on capital during construction.

3. BHAVNAGAR STATE RAILWAY (3' 33" gauge).

This line was constructed by Government Agency for the Indian State of Bhavnagar (after which it is named). It was worked up to the 31st March 1911 by an Administrative Coalition of the States of Bhavnagar, Gondal, Junagad and Porbandar, which was formed for the purpose of working as one undertaking the railways which, prior to that date, were comprised in the Bhavnagar-Gondal-Junagad-Porbandar railway. The Coalition ceased to exist on the 1st April 1911 on and from which date the line is being worked independently as a separate and distinct railway.

Progress in opening-

Section 1		lway.	-		•	Date of opening 2	Miles.	Total.	Grand total.	Remarks.
Main line— Bhavnagar Docks to Wad Branches—	lhwan J	unetio	n .	•		20-12-80	*105-11	105-11		* Includes 1.21 miles of Dock es-
Dhasa branch— Dhola to Dhasa Kundla extension— Dhasa to Liliamota			•	•		19-1-81 1-10-11	15.33	15:33		tate line which is worked for goods traffic only.
Liliamota to Savar Ku Palitana branch— Sihor to Palitana	ndla		:		:	17-3-12 16-11-10	15.00	35.80		
Jasdan extension— Botad to Vinchhia Vinchhia to Jasdan Mahuva extension—					:	15-5-13 15-9-13	18·41 15·06	16·92 33·47		
e Savar Kundla to Gadha Gadhakda to Rajula Ro Rajula Road to Mahuva	oad a	, , .			•	1-2-21 10-6-22 22-11-22	10.98 13.00 23.44	33 47		
Botad-Dhandhuka extensio Botad to Tagdi Tagdi to Dhandhuka	on		:		:	16-3-22 22-11-22	24·02 5·92	47.42†		† Includes 4.35 miles of Mahuva Dock estate
Rajula Road to Rajula Dungar Victor Extension-		•	•	•	٠	20-6-27	5.84	29·94 5·84		line which is worked for goods traffic only.
Dungar to Dock Estate Ningala Gadhada Extensio Ningala to Gadhada					•	15-3-28 1-1-29	7·66 9·52	7.66‡		‡Includes 2.86 miles of Port Albert Vic-
	(Grand	Тотлі	· •	•			9.52	307.01	tor Bundar which is opened for goods traffic only.

Details of construction-

Permanent-way.—The permanent-way consists of 50-lb., 41½-lb. and 40-lb. flat-footed steel rails and Jodka teak sleepers. The main line, except at some of the station yards, and 15·92 miles of the Botad-Dhandhuka extension are laid with 50-lb. rails; 49·71 miles of the Kundla and Mahuva extensions, the Dhasa and Palitana branches, the rest of the Botad-Dhandhuka extension, Rajula Road to Rajula, Dungar Victor and Ningala Gadhada Sections with 41½-lb. rails; and the Jasdan extension and the remaining portions of the Kundla and Mahuva extensions, with 40-lb. rails.

Ballast.—The line from Bhavnagar to Wadhwan Junction and Dhola to Dhasa Junction is ballasted with broken stone, with the exception of the length between Chuda and Wadhwan, which is ballasted with kunkur. All other Sections are ballasted with stone in cuttings and moorum or sand in banks.

Fencing.—The line is practically unfenced.

Curves.—The sharpest curves are as under:—

- 1,000 ft. radius on Bhaynagar-Wadhwan, Sihor-Palitana and Dungar-Victor Sections.
- 2,500 ft. radius on Dhola Dhasa Section.
- 1,432 ft. radius on Dhasa-Kundla, Botad-Jasdan and Botad Dhandhuka Sections.
- 1,146 ft. radius on Kundla Mahuva Section.
 - 716 ft. radius on Rajula Road Rajula Section.
 - 573 ft. radius on Ningala Gadhada Section.

Gradients.—On the main line and the Botad-Dhandhuka section the ruling gradient is 1 in 200, except for about 10 chains near the Ranpur Bhogawa bridge where it is 1 in 100. On Sihor Palitana and Ningala Gadhada Sections it is 1 in 100, between Dhasa and Mahuva and between Rajula Road-Rajula 1 in 125, between Dungar and Victor 1 in 140 and between Botad and Jasdan 1 in 150.

Agreement-

Nil.—The line is owned and worked by the Bhavnagar State, except Jasdan extension, which though worked by the Bhavnagar State Railway is owned under a partnership between Bhavnagar and Jasdan States.

3. BHAVNAGAR STATE RAILWAY (3' 3g" gauge)—concld.

Statistics of working. (Those for the periods prior to 1918-14 will be found in Appendix I to the Raliway Administration Report to

			13-14.)				
Year 1	Mileage open at end of each year,	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross carnings. 4	Net carnings 5	Percentage of net earn- ings on total capital out- lay given in column (3). 6	Earnings per milo per woek.	Proportion of expenses tearnings
1913-14	Miles. 206·31 206·31 206·31 206·31 206·31 206·31 206·31 207·20 240·13 282·81 282·81 282·81 283·99 283·99 297·40 307·01 307·01 307·01 307·01 307·01 307·01	R4. 1,12,27,133 1,20,88,076 1,21,16,508 1,22,06,682 1,23,62,470 1,24,80,015 1,35,22,553 1,42,77,210 1,57,35,759 1,80,25,007 1,82,42,714 1,84,08,510 1,87,19,533 1,92,66,168 1,98,59,042 2,03,71,380 2,00,94,744 2,13,06,623 2,17,47,48,9 2,22,27,121 2,27,00,773 2,30,43,679 2,41,37,835 2,47,48,055	Rs. 14,42,094 15,48,360 14,93,420 16,39,442 17,65,940 25,35,803 25,01,287 23,92,333 23,40,179 29,90,373 32,96,186 31,95,491 33,84,64,4 28,77,026 29,13,295 33,83,469 31,70,090 30,28,083 32,26,134 31,24,745 36,22,300 34,33,497 33,18,188	Rs. 7,38,766 8,28,988 7,81,522 8,46,223 10,62,256 16,47,733 13,80,076 11,13,069 0,51,099 12,53,305 14,07,521 13,68,043 14,96,584 10,12,646 11,59,481 16,08,375 12,08,610 11,53,787 11,08,236 13,23,004 15,13,386 18,29,678 14,68,485 14,68,485	6·58 6·45 6·45 6·93 8·51 12:39 10:21 7:80 6:95 7:72 7:43 7:90 5:26 5:90 6:28 5:30 5:51 6:64 7:64 6:08 5:48	Rs. 135 144 139 153 165 236 233 212 187 203 221 187 203 195 195 195 188 190 202 215 227 215 208	48-80 46-52 47-67 48-38 40-41 38-90 44-88 53-44 59-22 58-90 57-31 65-8 64-88 60-24 59-11 61-65 80-44 58-91 55-8 55-8 65-8 65-8 65-8 65-8 65-8 65-8

(h) BHAVNAGAR TALAJA TRAMWAY (Gauge 2'-6") opened for traffic from 5th January 1926. Details of construction.—

Permanent-way.—The permanent-way consists of 30 lbs. and 414 lbs. flat-footed steel rails on Jodd Teak half round sleepers.

Ballast.—The line is ballasted with broken stone metal and muram.

Fencing.—The line is practically unfenced.

Curves.—The sharpest curve is of 30° near Tansa and Talaja.

Gradients.—Ruling gradient is 1 in 70.

Statistics of working.

Year. 1	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines antly or wholly under construction.	Gross carnings.	Net earnings. 5	Percentage of net earn- ings on total capital, out- lay given in column (3).	Earnings per milo per week.	Proportion of expenses t carnings
1925-26	Miles. 33·17 33·17 33·17 34·74 34·74 34·74 34·74 34·74 34·74 34·74 34·74	Rs. 10,13,316 10,86,841 10,88,792 11,20,326 11,88,206 12,02,817 12,20,864 12,35,388 12,45,766 12,90,210 13,54,741 13,66,978	Rs. 23,960 89,435 93,082 1,05,409 1,10,269 1,06,183 1,04,416 1,09,153 1,13,447 1,21,568 1,14,128 1,14,232	Rs. 14,480 40,351 37,813 56,028 51,361 50,394 46,332 44,468 50,367 68,105 55,503 54,731	6·14 3·71 3·47 5·00 4·32 4·19 3·80 3·60 4·77 5·24 4·10 4·00	Rs. 60 52 54 61 61 59 58 60 63 67 63 63	39.5 54.8 59.3 46.8 53.4 52.5 55.6 59.2 47.0 43.9 51.3

Sect	ions of	railw	ay.	•				Date of opening.	Miles.	Total.	Grand total
	1							2	3	4	8
Main line-											
Marwar Frontier to Bikaner	٠.							9-12-91	47.75		
Bikaner to Dulmera .								2-6-98	42.00		į
Dulmera to Suratgarh .		•						1-1-01	71.85		
Suratgarh to Bhatinda .								9-9-02	88-00		}
Hissar extension—										249.60	l
Marwar Frontier to Sujanga	rh .							16-9-09	1.42	240 00	
Sujangarh to Ratangarh		٠.			_			2-2-10	28.56	,	į
Ratangarh to Churu .								22.5.10	26.61		ĺ
Churu to Hissar .					-			8-7-11	79.36		!
Bikaner-Ratangarh Chord-					•		•	0-7-11	10 00	135-95	j
Bikaner to Ratangarh .	_		_					24-11-12	84.97	199, 90	Ì
Kolayat extension-				-	•		•	24-11-12		04-07	į.
Lalgarh to Kolayat .								30-10-22	28.91	84.97	1
2,,6,.2,,5,	•	•	•	•	•		•	0-10-22	28.81	00.01	1
Canal Loop Line-								"		28.91	}
Hanumangarh to Sadulshah	t.			_		_	_	26-4-23	23.40		1
Sadulshahr to Sri Ganga Na	gar .						- 1	1-8-23	18.54		ļ
Suratgarh to Raisinghnagar	· .							1-10-25	35.23		1
Bri Ganga Nagar to Kesrisia		. 1		_	-	·	•	1-5-26	15.26		1
Kesrisinghpur to Raisinghn	lear		·		•	•	•	1-9-27	33.98		1
Sardarshahr extension-	0		-	-	•	•	•	1-0-2:	00 00	126-41	1
Hudera (2 miles from Ratan	(drag	to Sa	rdarsha	hr			Į.	1-3-16	27.29	120.41	1
Hanumangarh JnSadulpur-				••••	•	•	•	1-3-10	21.20	27.29	
Hanumangarh to Nohar .		_						15-9-27	45.76	27.29	1
Nohar to Tahsil Bhadran .	•	•	•	•	•	•	•	16-9-28	25.10		
Tabsil Bhadran to Suratput		•	•	•	•	•	•				
Anupgarh Branch-		•	•	•	•	•	•	13-11-30	36.58	707 44	ĺ
Sarupsar to Anupgarh .									27.00	107 • 44	1
barupsar to Anupgata .	•	•	•	•	•	•	•	30-3-29	35.28	35.28	ļ
		:	l'otal (OPEN M	ILEAG	E.		[795 • 85
Lines under construction or san	ctioned	for co	onstruct	ion					Ì		1
Sadulpur-Rewari (Sanction	ned on	4th 1	Yarch 1	937)	•		•	}	85 · 83	85.83	85.83
				Grand	Tota	,					881 · 68

Details of construction-

Permanent-way.—The permanent-way consists of flat-footed steel rails, 50 lbs. per yard for 603.60 miles, 40 lbs. per yard for 77 · 25 miles, and 36 lbs. per yard for 115 miles laid on steel trough, deodar, sal, chir, kail and half-round teak sleepers.

Ballast.—The ballast consists of coarse sand and small kunkur, except on the Suratgarh-Bhatinda section where it is broken brick and kunkur.

Fencing.—The line is unfenced, except at a few stations. Curves.—The sharpest curve is of 573 feet radius.

Gradients.—The ruling gradient is 1 in 350 (compensated) on Hanumangarh Jn.—Nohar Section, 1 in 350 on Nohar to Sadulpur Section, 1 in 150 on the Bhatinda-Chilo and Sujangarh-Hissar Sections, I in 200 on the Bikaner-Ratangarh chord and Sardarshahr extension, I in 350 on the Kolayat extension, Canal Loop line and the Anupgarh Branch.

Agreements -Nil.—The line is owned by the Bikaner Durbar and was worked by the late Jodhpur-Bikaner Railway administration up to the 31st October 1924. It was taken over by the Bikauer Durbar with effect from the 1st November 1921.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14.)—

		or and in Appendix 1		101 1010-17.7			
Year. 1	Mileago open at end of each year.	including suspense, to end of each year, i.c., outlay on (i) lines open and (ii) lines partly or wholly under construction.	i	Net earnings. 5	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of ex- penses to earnings.
1913-14	Miles. 470·37 470·37 497·66 497·66 497·66 497·66 497·66 497·66 497·66 698·89 619·15 698·89 755·27 755·27 7755·85 795·85 795·85 795·85	Rs. 1,10,31,983 1,17,65,712 1,21,34,077 1,20,67,874 1,21,04,054 1,21,01,657 1,23,33,100 1,39,32,035 1,50,85,292 1,92,49,743 1,90,63,490 2,21,16,490 2,60,88,443 2,80,71,503 2,90,82,757 3,20,89,473 3,41,39,796 3,65,02,380 3,62,62,738 3,64,28,641 3,63,79,266 3,64,62,361 3,65,31,650 3,65,71,769	Rs. 18,72,383 17,65,677 21,46,004 19,14,090 18,39,443 27,98,693 28,11,417 28,97,993 29,01,830 34,12,473 33,70,178 34,50,807 38,45,808 42,67,502 38,65,654 44,96,449 48,48,092 41,70,649 36,03,650 36,30,653 38,81,164 39,07,660 39,40,629	Rs. 9,71,270 8,82,773 10,51,632 8,49,179 10,18,736 14,58,834 13,74,914 10,74,902 8,36,846 8,46,590 8,14,733 13,54,346 6,17,399 6,38,315 13,69,090 12,59,880 15,90,136 16,43,113 12,01,405 8,65,038 11,32,044 13,88,134 11,41,179 11,90,481	8·S0 7·50 • 8·66 7·04 8·42 12·05 11·15 7·72 5·34 4·40 4·08 6·12 2·37 2·20 4·57 3·82 4·66 4·03 3·31 2·37 3·11 3·81 3·13	Rs. 77 72 83 74 71 108 109 112 112 125 114 126 110 119 117 98 114 117 101 87 88 94 94	48·13 50·00 51·03 55·64 44·62 47·87 51·09 62·90 71·19 75·16 75·84 67·41 64·63 66·11 71·18 76·00 68·82 64·24 70·78 69·78

5. DARJEELING HIMALAYAN RAILWAY SYSTEM.

Lines comprised in the system.—The Darjeeling Himalayan railwa	y sy	rstem	is m	ade 1	ıp of			
Miles combition in the electric and and and and								Miles.
(a) Darjeeling Himalayan railway (2' 0" gauge)							•	51.07
(b) Darjeeling Himalayan railway extensions (2' 0" gauge)								95.44
				Tot	al	•		146.51

(a) Darjeeling Himalayan railway (2' 0" gauge)-

Agents.-Messrs. Gillanders Arbuthnot and Company, Calcutta.

Date of registration of the Company .- 1879.

Progress in opening-

Sections of railway.										Date of opening.	Miles.	Total.	
Siliguri to Kurseong .		•	•		•	•	•	•	•		23-8-80 1-2-81	31·75 9·50	
Kurseong to Sonada Sonada to Ghum	•	:	•	•	:			:	:	: !	4-4-81	5.87	
Ghum to Darjeeling .	:					•	•		•		4-7-81	3.63	
Darjeeling to Darjeeling B	azar	•	•	٠	•	•	•	To	TAL		16-6-85	0.25	51.00
Regrading line— Between Glum and I	arje	eling							•		. 10-3-19	0.07	0.07
							GRA	sp To	TAL	. 1			51.07

. Details of construction-

Permanent-way.—The line is laid mainly with 41\frac{1}{2}-lb. flat-footed steel rails on wooden sleepers. These are being renewed with a special section steel rail 50\frac{1}{4}-lbs. to the yard, as required. A length of 3.05 miles has been renewed with 50 lbs. rails. A length of 5.60 miles has been relaid with a special section steel rail 50\frac{1}{4}lbs. to the yard.

Ballast.—For 7 miles from Siliguri the line has been ballasted with broken stone, except near Siliguri, where sand has been used. On the greater portion of the hill section, broken stone ballast has been put in.

Fencing.—The line is unfenced.

Curves.—The sharpest curve has a radius of 60 feet.

Gradients.—The ruling gradient of the greater part of the line is about 1 in 25; from Sukna to Ghum (summit) and thence to Darjeeling. There is a length of about three-tourths of a mile on grades of 1 in 22½ to 1 in 23, uncompensated, with short lengths of 1 in 20.

Contract and agreements-

Contract, dated the 8th April 1879, between the Secretary of State and the late Mr. Franklin Prestage, as to the construction, maintenance, management and working of the railway.

Agreement, dated the 24th January 1913, between the Secretary of State and the Darjeeling Himalayan. Railway Company, providing for the exclusion from the Company's capital of the preference share raised for buying up the shares of the Darjeeling Himalayan Railway Extensions Company for the purposes of clause 16 of the contract of 8th April 1879.

Agreement, dated the 30th July 1913, between the Sceretary of State and the Darjeeling Himalayan Railway Company, as to the adoption of Government financial year for the preparation of Accounts.

Agreement, dated the 17th September 1915 (supplemental to the contract of 1879), between the Scoretary of State and the Darjeeling Himalayan Railway Company, as to the works to be executed on the hill cart road and rates of payment to the Company as from the 20th May 1913.

Agreement, dated the 14th August 1922 (supplemental to the contract of 1879 and agreements of 24th January and 30th July 1913), between the Secretary of State and the Darjeeling Himalayan Railway Company, as to the application of the surplus of the half share of excess profits divisible between the Secretary of State and the Company.

Agreement, dated the 18th June 1923 (supplemental to the contract of 1879), between the Secretary of State and the Darjeeling Himalayan Railway Company, as to the rates and fares chargeable by the Company for the carriage of goods and passengers as from the 18th June 1923.

Main provisions of contract and agreements-

- (i) Land.—Government land, and the right to use the existing cart road, to be granted to the Company free of cost. Other land necessary, if any, to be acquired by the Government and transferred to the Company at cost price.
- (ii) Government aid.—The Government undertake to pay to the Company any sum required to make up its gross receipts to two lakks of rupees annually, which will include charges for carriage of mails troops or stores.

5. DARJEELING HIMALAYAN RAILWAY SYSTEM-contd.

- a) Darjeeling Himalayan railway (2' 0" gauge)-concld.
 - Main provisions of contract and agreements-concld.
 - (iii) Distribution of profits.—After the first five years half the net profits of any year in excess of 5 per cent. on the paid up capital to be applied in repayment to the Government of the amount expended on the maintenance of the cart road during the same year, or in making good a deficiency in gross receipts.
 - (iv) Rates and fares.—Certain maxima have been fixed within which the Company is permitted to vary rates and fares.
 - (v) Special obligations as to the conveyance of—
 - (a) Mails, troops, police, high Government Officials and Government stores.—Mails and Post office servants to be carried by the Company in consideration of a payment by the Government of Rs. 10,260 yearly. [No special provision exists as to troops, police, high Government Officials and Government stores.]
 - (b) Government bullion and coin, and the persons in charge thereof.—None specified.
 - - After the railway has been opened for 25 years (reckoning from the 4th May 1884), and thereafter at intervals of 10 years, the Government have the power, by giving 12 months' previous notice, to terminate the contract and take over the line on payment to the Company of its value as a dividend-earning investment, with an additional bonus of 20 per cent. over and above such value.
 - Note.—Government relinquished the right to terminate the contract at the end of the 25th year, and decided to allow the contract of the 8th April 1879 to continue for a period of 10 years, viz., to May 1919 (vide Railway Board's letter No. 1412-R.T.. dated the 1st August 1908, to the Secretary to the Government of Bongal, Railway Department). Subsequently the duration of the contract has been twice extended for periods of 10 years, viz., to May 1929, and May 1939, respectively.
 - (viii) Term of contract.—None specified.
 - Note.—Arbitration award, dated 9th November 1929, between the Secretary of State for India in Council and the Darjeeling Himalayan Railway Company, Limited, as to the upkeep and maintenance of the Hill Cart Road.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Rallway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14.)—

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gress earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Govern ment share of surplus prolits.	Total income (column 5— column 7).	Percentage of total income on total capital outlay given in column (3).	Earn- ings per mile per week.	Pro- por- tion of ex- pense to earn- ings
1	2	3	4	5	5	7	8	9	10	11
1913-14 . 1914-15 . 1915-16 . 1915-16 . 1916-17 . 1917-18 . 1918-19 . 1920-21 . 1921-22 . 1922-23 . 1923-23 . 1923-23 . 1923-23 . 1933-34 . 1933-34 . 1933-36 . 1936-37 .	Miles. 51.00 51.00 51.00 51.00 51.00 51.07 51.07 51.07 51.07 51.07 51.07 51.07 51.07 51.07 51.07 51.07 51.07 51.07 51.07 51.07 51.07	Rs. 40,76,057 43,01,734 43,02,976 44,72,697 46,06,491 46,27,191 46,66,875 47,49,352 47,10,205 49,10,519 49,14,003 47,40,818 50,0,314 49,65,393 50,33,179 51,27,929 51,40,076 51,32,617 50,91,217 50,19,226 50,51,765 50,57,721 50,30,773 50,07,695	Rs. 11,98,789 11,35,682 11,89,696 13,01,592 12,87,179 13,69,537 14,11,95,940 15,07,622 16,27,221 16,83,962 17,46,244 17,65,375 17,00,085 16,26,787 15,83,722 15,38,695 14,48,987 12,58,441 12,87,811 12,72,716 12,59,352 12,32,910	Rs. 5,01,315 4,60,576 4,99,218 4,48,832 4,60,874 4,86,078 5,11,560 5,20,830 4,81,237 4,59,603 5,97,954 6,62,229 5,38,012 4,79,585 5,34,345 4,98,017 4,68,920 4,85,878 3,11,075 4,01,047 3,80,137 3,56,070	12·30 10·91 11·44 10·03 10·00 10·50 10·96 10·97 10·22 9·36 12·16 13·97 10·74 11·18 9·52 10·42 9·69 9·13 9·55 6·19 8·11 7·51 7·19	Rs. 1,08,006 97,676 1,06,612 95,565 97,089 1,06,318 1,17,896 1,27,639 98,538 93,439 1,36,134 1,57,134 1,20,199 1,25,252 1,02,413 1,19,062 98,530 76,025 80,961 28,037 52,635 37,565 14,519 14,169	4,30,057 3,77,172 4,15,283 3,99,487 3,92,904 4,04,917 2,83,038 3,56,457 3,72,882	9·65 8·64 9·00 7·90 7·90 8·21 8·43 8·38 9·12 7·46 9·80 10·65 8·34 8·66 7·49 8·09 7·77 7·65 7·95 5·64 7·05 7·27 6·83	Rs. 452 428 449 491 485 516 532 552 563 568 610 633 657 666 640 612 597 474 479 472 464	58·18 58·65 58·65 66·52 64·19 63·78 64·54 67·83 60·51 63·25 60·67 63·16 63·25 69·52 69·52 66·47 75·28 68·55 69·52 66·47 75·28 67·75 69·81 71·12

(b) Darjeeling Himalayan railway extensions (2' 0" gauge)-

Managing Agents.—Messrs. Gillanders Arbuthnot and Company, Calcutta.

Date of registration of the Company.—20th January 1913.

The construction of this line by the Darjeeling-Himalayan Railway Company for the Darjeeling Himalayan Railway Extensions Company was authorised by the Railway Board in their telegram No. 251 R.C., dated the 6th February 1913.

5. DARJEELING HIMALAYAN RAILWAY SYSTEM-concld.

(b) Darjeeling Himalayan railway extensions (2' 0" gauge)—concld.

Main provisions of contracts-concld

will be double, and the minima rates and fares the same as those permissible on the Eastern Bengal railway; and that the maxima rates and fares for the Teesta Valley Extension will be those stated in schedule "A" attached to the contract, and the minima rates and fares the same as those fixed for the Western Extension of the Bengal Dooars railway.

- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—
 - (b) Government bullion and coin and the persons in charge thereof.—

The Company shall carry out all such services as are usually performed by State railways of a similar gauge in the same manner and subject to the same regulations and conditions as to rates and otherwise as are for the time being in force on such railways.

- (vii) Power of the Government to determine contract.—The Government may, by giving "notice of purchase", determine the contract, either on the 31st March 1946 or on the 31st March in the last year of any subsequent period of 10 years, by paying to the Company 25 times the amount of the average of the yearly net earnings (excluding payments on account of rebate) of the Company during the 3 years immediately preceding, but so that the total amount so payable to the Company shall not in any case exceed by more than 20 per cent. or be less than, the total capital expenditure of the Company.
 - The Government may, by giving "notice of special purchase", determine the contract at any time in the following cases:—
 - (a) when it is considered desirable to alter the gauge of the railway;
 - (b) when it is considered desirable to convert the railway into a line of through communication; and
 - (c) when it is considered desirable to extend the railway (without altering the gauge or making the line part of a through route) and the Company is unable or unwilling to provide funds for such extension.
 - If the contract be determined by "notice of special purchase" the Government will pay to the Company 25 times the average yearly net earnings during the 3 years preceding the purchase or 115 per cent. of the total capital expenditure, whichever may be the greater.
 - (viii) Power of the company to surrender contract .- Nil.
 - (ix) Term of contract [if not determined under (vii)].—None specified.

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay including suspense to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Rebate from (+), or share of surplus profits payable to (—), Secretary of State.	Total income.	Percentage of total income on total capital outlay given in column (3).	per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8	9	10	11
	Miles.	Rs.	Rs.	Rs.		Rs.	Rs.		Rs.	
1913-14	14.28	22,92,311 }	.,	Inform	nation not a	vailable.				
1914-15	53·62 95·44	39,87,838 \\ 45,66,982	1,61,788	80,894	1.77	+ 40.780	1.21.674	2.61	65	50.00
1915-16	95.44	51,10,296	3,32,929	1,66,464	3.26	+1.04.050	2,70,514	5.29	67	50.00
1916-17 1917-18	95.44	53,77,644	3,71,982	1,85,991	3.46	+ 97,891	2,83,882	5.28	75	50.00
1917-18	95.44	54,48,031	4,34,872	2,17,436	3.99	+ 69,966	2,87,402	5.27	88	50.00
1919-20	95.44	54,64,25C	4,64,291	2,32,145	4.25	+ 56,067	2,88,212	5.27	94	50.00
1920-21	95.44	54.86,131	4,93,221	2,46,610	4.49	+47,143	2,93,753	5.35	100	50.00
1921-22	95.44	55,21,355	4,58,392	*2,14,196	3.88	+ 61,872	2,76,068	5.00	92	50.00
1922-23	05.44	55,31,981	5,76,435	*2,73,218	4.94	+ 3,381	2,76,599	5.00	116	50.00
1923-24	95.44	55,50,994	5,43,331	*2,56,667	4.62	+ 40,930	2,97,597	5.36	109	50.08
1924-25	95.44	55,76,900	6,11,564	*2,90,782	5.21	658	2,90,124	5.20	123	50.00
1925-26	95.44	56,39,898	6,25,281	*2,97,642	5.27	- 2,832	2,94,810	5.22	126	50.00
1926-27	95.44	56,83,417	6,37,161	*3,03,580	5.34	— 4,350	2,99,230	5.26	129	50.00
1927-28	95.44	57,53,584	†6,03,793	12,75,838	4.79	+ 11,841	2,87,679	5.00	122 121	50.00
1928-29	95.44	57,67,070	†5,08,378	*2,81,189	4.93	+ 4,164	2,88,353	5.00	116	50.00
1929-30	95.44	57,79,119	5,77,308	*2,76,417	4.78	+ 12,539	2,88,956	5.00	100	50.00
1930-31	95.44	57,79,694	5,00,627	*2,36,717	4.09	+ 52,267	2,88,984	5.00	82	75.08
1931-32	95.44	57,82,278	4,21,673	*90,173	1.55	-+ 93,009	1,83,182	3.16	78	79 09
1032-33	95.44	57,82,231	4,01,591	*68,969	1.19	+1,03,045	1,72,014		75	81.62
1933-34	95.44	57,89,286	3,85,126	*55,794	0.96	+1,12,090	1,67,884		88	70.11
1934-35	95.44	57,94,133	4,53,061	*1,20,418	2.08	+ 78,296	1,98,714	3.43	101	64.36
1935-36	95.44	58,01,001	5,21,802	*1,70,969	2·95 3·99	+ 44,298	2,15,267 2,55,027	4.39	109	56.16
1936-37	95.44	58,08,939	5,62,712	*2,31,690	3.00	+ 23,337	2,00,027	± 00	100	100 10

N.B.—The Revenue figures against 1915-16 are for the half-year ending 31st March 1916, as those for the previous half year were credited to capital.

^{*} After payment of management expenses, viz., Rs. 15,000.

[†] Excludes earnings of carriage of revenue stores.

¹ After payment of management expenses and Super Tax.

6. DIBRU-SADIYA RAILWAY SYSTEM.

Chairman .- E. A. A. Joseph, Esq.

Secretary.—S. Maclean Jack, Esq.

Offices .- Blomfield House, 85, London Wall, London E. C .- 2.

Date of registration of the Company.-30th July 1881.

Lines comprised in the system -The Dibru-Sadiya railway system is made up of-

(a) Dibru-Sadiya railway (3' 32" gauge)-

Progress in opening-

ogress in opening—												
Section	lo er	railwa	ay.						Date of opening.	Miles.	Total.	Grand total.
	1								2	3	4	5
Main line— Lower steamer ghat on the left ban garh Bazar, eastward as far as Dinjan stream to Makum Junction Makum Junction to Dihing Bridge	the.	the Bi Dinjai	rahmi n stre	iputi im	n river	, nea : :	r Dibru	ı.	15-8-82 16-7-83 2-5-84	15·00 23·50 23·00	61•50	
Dum Duma branch— Makum Junction to Dum Duma Dum Duma to Talap	:	:	:	:	:	:	•	:	2-5-81 5-2-85	10·00	16.00	
Saikhoa extension— Talap to Saikhoa Ghat .		•		•			•		1-5-10	8.25		
					GRAND	Тот	AL.				8.52	86-02

Details of construction-

Permanent-way.—Of the main line 25.51 miles are laid with 75-lb., 32.49 miles with 60-lb. and the remainder with 50-lb. flat-footed steel rails laid on Nahor, Ajhar and Hollong oil-treated sleepers and cast-iron plates of the Denham-Olpherts' type. The Dum Duma branch and Saikhoa extension are laid with 50-lb. rails on Nahor and Hollong oil-treated sleepers.

Ballast.—The main line is ballasted throughout, and the branch line partially, with broken stone. Fencing.—The line is unfenced, with the exception of a short length at Dibrugarh.

Curves.—The sharpest curve is of 700 feet radius.

Gradients.—The ruling gradient is 1 in 140 on the main line and 1 in 100 on the Saikhoa extension.

Contracts-

Contract, dated the 26th May 1880 (called the principal contract), between the Secretary of State and the Assam Railway Company, subsequently called the Assam Railways and Trading Company, as to the construction, maintenance, management and working of the Dibru-Sadiya railway with branches.

Contract, dated 25th July 1881 (supplemental to that of 1880), between the Secretary of State and the Assam Railways and Trading Company, modifying the contract of 1880 and providing that the Company shall have the preferential option for the construction and working of any other line(s), in the Lackimpore District—an option which has since been surrendered in consideration of an undertaking by the Secretary of State that the Government right of purchase shall not be exercised until after 1910, vide letter from the India Office to the Company's London Board, No. 2193 dated the 13th December 1898.

Letter No. P.W. $-\frac{923}{1758}$, dated the 31st March 1905, from the Honourable the Chief Commissioner of Assam, to the Government of India in the Department of Commerce and Industry;

Telegram No. R.P.-5, dated the 11th May 1905, from the Railway Board, to the Honourable the Chief Commissioner of Assam; as to the construction of the Saikhoa extension.

Contract, dated the 28th October 1914 (supplemental to those of 1880), between the Secretary of State and the Assam Railways and Trading Company, as to the maintenance and working of the Saikhoa extension, the alteration in the date for the exercise of the option of purchase of the Company's railway and the adoption of the Government Financial year for the preparation of accounts.

Contract, dated the 14th January 1920 (supplemental to those of 1880, and 1914), between the Secretary of State and the Assam Railways and Trading Company, as to the extension of the period after which the Secretary of State may exercise the option of purchasing the line and certain other matters.

6. DIBRU-SADIYA RAILWAY SYSTEM-contd.

(a) Dibru-Sadiya railway (3' 3\xi' gauge)-concld.

Main provisions of contracts-

- (i) Land.—Provided by the Government free of cost to the Company.
- (ii) Government aid.—Annual subsidy on the main line for 20 years from the date of opening, not exceeding Rs. 80,000 in any one year, or such smaller sum as, added to not earnings of the main line, will make up 5 per cent. on the paid-up capital (exclusive of the cost of Makum branch).

Annual subsidy on the Makum Branch for 20 years from the date of opening, not exceeding Rs. 20,000 in any one year, or such smaller sum as, added to the net earnings of the branch, will make up 5 per cent. on the capital cost.

Annual subsidy on the Saikhoa extension for 10 years from the date of opening at the rate of Rs. 600 per mile.

The subsidies are subject to deduction if the Company fail to keep the line in good order and properly equipped, and to work it.

- [Note.—The period of subsidy for the main line and Makum branch terminated as from the 30th June 1903, vide letter from the Honourable the Chief Commissioner of Assam in the Public Works Department to the Examiner of Public Works Accounts, Assam, No. 1739 P. W. 12898, dated the 11th June 1894, and that for the Saikhoa extension, from September 1920.]
- (iii) Distribution of profits.—All the profits go to the Company.
- (iv) Rates and fares.—To be approved by the Government. If, after five years from the date of opening of the main line, the net profits of the Company exceed 12 per cent. of their paid-up capital, the Government may require the Company to make such reduction in their rates and fares as shall not lead to a diminution of the net profits below 12 per cent.
- (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, high Government officials and Government stores.—To be conveyed at rates to be agreed upon from time to time, not exceeding those now paid in the district concerned.
 - (b) Government bullion and coin, and the persons in charge thereof.—Not specified.
- (vi) Power of the Government to determine contract.—If the Company fail, for a period extending over six months, to observe its obligations, the Government may determine the contract and call upon the Company to restore the land, etc., made over to it. The Government has the option of purchasing the railway, and its rolling stock and other equipments and property of the Company at intervals of ten years from the 5th February 1921, on giving one year's notice and paying 20 per cent. in excess of the value of the property as a dividend paying investment.
- (vii) Power of the Company to surrender contract .- Nil.
- (viii) Term of contract [1f not determined under (vi) or (vii)].—None specified.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14)....

		101 1907	and in Appe	nuix 1 to the	neport for 18	(13-14)				
Year.	open at end	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction		Net carnings.	Vercentage of net earnings on total capital outly given in column (3).	Subsidy from local Govern- ment.	income.	Percentage of total income on total capital outlay given in column (3)	Earnings per milo per week,	Proportion of ex renses to earn- ings.
1	2	3	-1	δ	6 ,	7	8	9	10	11
	Miles.	Ra.	Rs.	Rs.		Rs.	Rs,		Rs.	
1913-14 1914-15 1915-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1924-25 1925-26 1926-27 1927-28 1928-29 1929-30 1931-32 1931-32 1931-35 1935-36 1936-37	86-02 86-02	1,09,70,066 1,11,66,228 1,14,10,380 1,10,14,769 1,17,35,173 1,20,65,740 1,21,75,421 1,22,03,685 1,24,14,586 1,24,36,316 1,26,02,000 1,32,15,635 1,39,41,649 1,47,44,632 1,47,44,632 1,47,44,632 1,47,44,632 1,452,200 1,52,32,708 1,53,96,132 1,52,95,714 1,53,16,029 1,53,62,680 1,52,23,096 1,51,81,145	13,51,970 12,92,241 11,18,609 14,26,539 14,40,889 13,78,079 14,79,731 16,88,178 17,16,337 10,37,876 20,36,270 24,47,363 25,55,931 28,42,683 28,42,883 29,61,672 23,46,552 21,05,018 10,15,097 10,91,049 10,99,951 17,77,166	6,03,160 4,88,264 6,51,050 5,67,813 5,60,091 1,75,323 4,32,291 4,32,291 4,32,291 4,32,291 1,77,645 5,96,940 5,25,162 8,83,613 11,88,231 13,94,866 13,52,874 13,10,032 14,47,001 15,28,099 10,48,819 9,41,174 7,62,457 7,20,059 5,91,585	5.50 4.37 4.83 4.81 4.26 3.94 3.55 2.98 3.85 4.80 4.17 6.68 8.53 9.90 10.62 8.89 9.76 10.03 6.82 6.15 4.97 4.96	5,112 5,112 5,112 5,112 5,112 5,112 5,112	6,08,272 4,93,376 5,67,162 5,62,925 5,05,203 4,876,433 3,68,516 4,77,645 5,96,940 5,25,152 8,83,613 11,88,334 11,98,332 14,47,004 15,28,009 10,48,819 9,41,174 7,62,457 7,20,959 5,94,585	4.69	303 289 317 319 322 308 335 353 435 517 571 644 651 622 623 471 428 445 307	55-49 62-21 61-16 60-90 65-29 65-51 70-78 77-12 72-17 60-20 53-50 53-57 53-77 50-70 49-10 48-44 55-30 55-29 60-10 61-76 62-25 66-54
		İ								}

†Excludes Ra. 1,50,000 (£10,000) representing the estimated cost of stores, etc. for the purpose of arriving at the amount of Govt. Subsidy due to the D. S. Ry. in years when a subsidy was payable.

6. DIBRU-SADIYA RAILWAY SYSTEM-contd.

(b) Ledo and Tikak-Margherita Colliery railway (3' 38" gauge)-

This line was constructed by the Assam Railways and Trading Company in 1883, under the sanction of a concession granted in an Indenture made with the Secretary of State on the 30th July 1881, and was used originally only for the purpose of bringing coal from the mines on the south bank of the Dihing river to connect with the Dibru-Sadiya railway. It was constituted a railway and its working was taken over by the Dibru-Sadiya railway from the 1st January 1897.

Progress in opening-

		Se	etion	of rai	ilway.						Date of opening.	Miles.	Total.
Dihing bridge to Ledo	•	•	•	•	•	•	•	•	•	•	17-2-84	5.20	5 ∙50

Details of construction-

Permanent-way.—The line is laid with 75-lb. flat-footed steel rails on Nahor and Hollong oil-treated sleepers.

Ballast.—The line is ballasted with broken stone.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 750 feet radius.

Gradients.—The ruling gradient is 1 in 115.

Contract-

Letter from the Government of India in the Public Works Department, No. 623-R.T., dated the 6th August 1896, as to the carriage of goods over the Company's Colliery line and for the through booking of the same with stations on the Dibru-Sadiya railway.

Resolution by the Government of India in the Public Works Department, No. 234-R.T., dated the 11th March 1897, as to the application of the general rules for working open lines of railway to the Company's Colliery line.

Main provisions of contract-

- (i) Land.—Mines and premises leased to the Company at a fixed half-yearly rental, or in lieu of such rent a certain royalty on the output of coal.
- (ii) Government aid.—Nil.
- (iii) Terms of working.—All charges for working the open line system are divided between the Dibru-Sadiya railway and the Colliery branch in proportion to their respective gross earnings. For hire of rolling-stock provided by the Dibru-Sadiya railway, 5 per cent. of gross earnings are charged to the Colliery.
- (iv) Rates and fares.—Certain station to station goods rates have been approved in the Government of India letter noted above.
- (v) Special obligations as to the conveyance of—
 - (a) Mails, troops, police, high Government officials and Government stores.
 (b) Government bullion and coin, and the persons in charge thereof.
- (vi) Power of the Government to determine contract.—The Government may determine the contract and take possession of the mines if the Company fail to fulfil its obligations. On the termination of the contract the Government may purchase buildings and works at a fair valuation
- (vii) Power of the Company to determine contract.—The Company may determine the contract if the mines become destroyed or are rendered unfit through any extraordinary casualty. On the termination of the contract the Company is to take away all machinery, etc., belonging to the mines and the railways or tramways constructed for the purpose of working the mines, unless the Government shall be willing to purchase the same.
- (viii) Power of the Company to surrender contract .- Nil.
 - (ix) Term of contract .- Thirty years from the 30th July 1931.

6. DIBRU-SADIYA RAILWAY SYSTEM-concld.

(b) Ledo and Tikak-Margherita Colliery railway (3' 3\frac{3}{8}" gauge)—concid.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix I to the Report for 1913-14).—

	Year	•		Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross carnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile pør week.	Proportion of expenses to earnings.
	1			2	3	4	5	6	7	8
				Miles.	Rs.	Rs.	Rs		Rs.	
1913-14 1914-15		:	٠	5·50 5·50	16,94,069 16,94,069	92,068 99,609	40,821 38,190	2·41 2·25	322 348	55·66 61·65
1915-16 1916-17 1917-18 1918-19 1919-20		•	•	5·50 5·50 5·50 5·50 5·23	16,94,069 16,94,069 16,94,069 16,94,069 16,94,069	96,680 94,080 94,876 87,302 93,018	37,755 36,149 32,856 30,574 50,221	2·23 2·13 1·94 1·80 2·96	338 329 332 305 342	60·95 61·53 65·37 64·98 46·01
1920-21 1921-22 1922-23 1923-24	•	:	•	5·23 5·23 5·23 5·50 5·50	16,94,069 16,94,069 16,94,069 16,94,069 16,94,069	1,03,183 1,02,725 1,05,001 97,375 1,23,095	24,334 29,247 32,090 24,779 47,988	1·43 1·73 1·89 1·47 2·83	379 378 386 340 430	76·42 71·52 69·36 74·55 61·02
1924-25 1925-26 1926-27 1927-28 1928-29	•	•	•	5·50 5·50 5·50 5·50 5·50	16,94,069 16,94,069 16,94,069 16,94,069	1,23,096 1,07,942 1,52,538 1,63,859 1,69,789 1,83,020	47,988 49,025 71,951 73,365 82,206 89,983	2·89 4·25 4·33 4·85 5·31	377 533 573 594 640	54·58 52·83 55·23 51·58
1929-30 1930-31 1931-32 1932-33 1933-34	•	•	•	5·50 5·50 5·50 5·50	16,94,069 16,94,069 16,94,069 16,94,069 16,94,069	1,83,020 2,05,620 1,21,402 1,02,224 1,03,639	1,02,346 52,334 44,725 40,542	6.04 3.09 2.64 2.36	719 424 357 362	50·23 56·89 50·25 60·88
1934-35 1935-36 1936-37	:		:	5.50 5.50 5.50	16,94,069 16,94,069 18,59,035	1,07,616 1,18,339 1,05,015	44,205	2.61	414	62.64

7. GAEKWAR'S BARODA STATE RAILWAYS SYSTEM.

Lines comprised in the system-

The Gaekwar's Baroda State railway system is made up of-

					(Op^n line s. Miles.	Under construction or sanctioned for construction, Miles.	Total Miles.
(a) Gackwar's Baroda State Railway (3' 3% gauge)		•			•	255-12		255-12
(b) Gaekwar's Baroda State railways (2' 6" gauge)		•				333.06	••	333.08
(c) Khijadia-Dhari Railway (3' 3%" gauge) .	٠	•	•	•		37.46	16.10	53.56
(d) Bodeli-Chhota Udaipur railway (2' 6" gauge)	•	٠		•	•	22.67	••	22.67
			То	tal		048-31	16.10	664-41

(a) Gaekwar's Mehsana railway (3' 3g" gauge)—

The lines are the property of His Highness the Maharaja of Gaekwar of Baroda. They were worked by the B. B. and C. I. Railway Company, upto the 31st March 1933 after which date the maintenance and working were taken over by the Durbar.

Progress in opening-

Sect	ions	of ra	ilwa	y.					Date of opening.	Miles.	Total.	Grand total
		I							2	3	4	5
Viramgam-Mehsána-Tarang	а Н	1 <i>ll s</i> ec	tion	-								-
Viramgam to Mehsána								_ (1-2-91	40.00	1	1
Mehsáná to Vadnagar								• 1	21-3-87	40.21	ł	1
Vadnagar to Kherálu .						·			12-12-88	20.73	ł	
Kherálu to Taranga Hi	1						·	•	20-8-09	6.86	ļ	İ
Kakosi extension—						•	•	• 1	20-6-09	7.58		
Mehsana to Patan .		•						- 1	20-7-91	04.00	75.38	ļ
Pátan to Wagrod .								• 1	15-1-15	24 • 69		
Wagrod to Kakosi .							-		28-5-16	14.72		-
Harij branch—						•	•	• 1	20-0-10	9.02		1
Manund Road to Harij							_		23-10-08	01.00	40.33	ļ
Shoyani Road extension-						•	•	٠,	-0.10.00	21.01		i
Chanasma to Bechraji	_							_	23-10-08	10.70	21.01	}
Bechraji to Katosan Ro	ad	<u>.</u>	•						1-5-20	16.58		}
Katosan Road to Bhoy	ani .	Road						[1-3-21	15.18		
ijapur Kadi-Bhoyani Road	erle	nsio	ı—					1	1-0-21	5.99		
Vijapur to Kálol		•	•					_ 1	10-6-02	00.00	37.75	
Kalol to Kadi				•					13-7-03	29.22		
Kadı to Bhoyani Road								. 1	1.4.12	11.03	- 1	
lijapur to Ambaliason .		•						- 1	1-10-28	4.74	Į.	
						•	•	· ì	1-10-28	25.76	i	
(FRA?	or di	DTAL	OPEN	MILE	AGE			ľ		71.65	
								- 1	••	••		255 • 13
								- 1		1	ł	200 1

Details of construction-

Permanent-way.—The branches and extensions are laid with 414-lb. flat-footed steel rails on wooden sleepers, except 40.21 miles which have been laid with second hand 50-lb. steel rails laid on wooden sleepers.

Ballast.—The line is ballasted with stone, lime stone and kunkur.

Fencing.—Of the Manund Road-Harij, Chanasma-Bechraji and Vijapur-Kadi-Bhoyani Road sections only the station yards are fenced; and of the other sections about 32 miles are fenced with wire, and the rest with cactus, but this latter has in several places been entirely destroyed by floods and locusts and what remains is much broken up.

Curves.—The sharpest curve is of 1,432 feet radius.

Gradients.—On the Mehsána-Kherálu and Vijapur-Kadi sections the ruling gradient is 1 in 150, except for 5,100 feet between Varetha and Taranga Hill, where it is 1 in 75. On the Mehsána-Viramgam section it is 1 in 300, except for 800 feet between mile 0 and 1 and 1,350 feet between miles 5 and 6, where it is 1 in 200. On the Mehsána-Patan section it is 1 in 400, except for 850 feet between miles 6 and 7, where it is 1 in 200. On the Patan-Wagrod section it is 1 in 150, on the Manund Road-Harij and Kadi-Bhoyani Road sections, 1 in 200 and on the Chanasma-Bechraj section, 1 in 366.

Agreement—

The line is owned and worked by the Baroda State.

7. GAEKWAR'S BARODA STATE RAILWAY SYSTEM -contd.

(a) Gaekwar's Mehsana railway (3' $3\frac{3}{8}$ " gauge)—contd.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14.)—

			Ir	cludes the	Khijadia-	Dhari-Ra	ailway fig	gures fro	m 1934	35.				
		open at each year,	including to end of e i.e., out (i) lines of (ii) lines wholly us	ach year, day on open and partly or	Gross es	arnings.	Net ear	rnings.	earnings capits	ge of net on total al outlay columns 5.	Earn	ings per perweek.	exper	rtion of paces to nings.
Year.	Mehsana Railway.	Vijapur Bhoy- ani Road section.	Mehsana Railway.	Vijapur Bhoyani Road Section.	Mehsana Railway	Vijapur Bhoy- ani Road section.	Mehsana Railway.	Vijapor Ercy- ani Road section.	Mehsa- na Railway.	Vijapur Blioy- ani Road section.	Mehsa- na Rail- way.	Vijapur Bho y- ani Road section.	Mehsa- na Rallway.	Vijapur Bhoy- nni Road section.
1	2	_3	4	5	6	7	8	9	10	11	12	13	14	15
	Miles	Miels.	Rs.	Rs.	Rs.	Re	Rs	Rs.			Re	Ra,		
1913-14 . 1914-75 . 1915-16 . 1916-17 . 1917-18 . 1918-19 .	138.08 152.72 152.72 162.63 162.63 162.63	46-11 46-11 46-11 46-11 46-11	57,80,970 66,40,657 64,67,495 68,97,803 69,03,986 69,34,331	15,71,787 16,02,858 16,31,527 18,92,634 21,06,018 22,97,018	6,58,961 7,07,195 7,14,241 7,35,224 8,30,887 12,23,327	1,45,014 1,63,120 1,63,233 1,56,316 1,51,600 1,87,569	3,37,010 3,72,108 4,21,341 4,64,141	77,712 85,045 89,339	5·72 5·07 5·75 6·11 6·72 9·89	4.63 4.85 5.21 4.72 4.02 4.56	92 96 90 88 98 145	60 66 68 65 63 78	49.85 52.35 47.90 42.69 44.14 43.94	49.82 52.36 47.90 42.85 44.09 44.15
1910-20 . 1920-21 . 1921-22 . 1921-22 . 1922-23 . 1923-24 . 1924-25 . 1925-26 . 1926-27 . 1927-28 . 1928-29 . 1929-30 . 1930-31 . 1931-32 . 1932-33 . 1933-34 . 1934-35 . 1935-36 . 1935-36 . 1935-37 . 1935-37	20 20 20 20 20 20 20 20 20 20 20 20 20 2	08.74 00.88 00.88 00.25 00	90, 1,000 1,01, 1,01, 1,02, 1,03, 1,03, 1,03, 1,03, 1,17, 1,17, 1,17, 1,17, 1,20, 1,20, 1,21, 1,	84,329 773,321 1,15,434 68,144 16,156 62,489 12,546 95,941 95,941 95,043 25,024 96,677 82,317 30,408 94,573 99,101	14, 15, 19, 19, 19, 19, 20, 17, 19, 22, 20, 18, 20, 21, 23, 23, 23, 23, 23, 23, 23, 23, 24, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25	71,581 74,374 ,66,798 13,796 69,113 36,170 09,243 ,78,553 ,94,336 ,26,778 ,82,099 ,64,627 ,83,206 ,64,627 ,33,618 ,05,219 ,05,135	4 35,57,8 7,6 6,7 9,8 7,7 7,7 8,11	13,450 81,103 81,6974 83,525 99,914 24,810 78,179 61,618 510,226 43,203 08,528 16,822 51,356 7,24,518 95,736 94,177	4357870780567788	*82 *76 *80 *03 *55 *17 *05 *17 *05 *85 *96 *15 *22 *53 *96 *19 *10 *10 *10 *10 *10 *10 *10 *10 *10 *10		126 127 131 160 165 165 168 148 148 156 156 141 156 160 153 151 144	670556665456	5-27 7-34 9-51 9-58 9-51 9-38 7-40 1-27 2-20 1-27 2-20 1-23 1-33 1-31 0-10 7-33 1-21 1-31 1-31

(b) Gaekwar's Baroda State railways (2' 6" gauge)-

The lines are the property of His Highness the Maharaja Gaekwar of Baroda. They were worked by the Bombay, Baroda and Central India Railway Company up to the 30th September 1921, after which date the maintenance and working were taken over by the Durbar.

Progress in opening—	Progress	in	opening-
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		ilway.							Date of opening.	Miles.	Total.	Grand total.
	1								2	3	4	5
Dabhoi Section-										1	ļ	
Chandod-Dabhoi-Jambusar b	ranch-										1	j
Chandod to Dabhoi .	•	•	٠	•	•	•	•	•	15-4-79	10.55	1	
Dabhoi to Goya Gate .		•	•	•	•	•	•	•	1-7-80	16.83	Ì	1
Goya Gate to Vishvamitr	i.	•		•	•	•	•	•	24-1-81	2.02	{	1
Vishvamitri to Padra . Padra to Mobha . Mobha to Mator Road .		•	•	•	•	•	•	• '	1-7-97	6.63		1
Padra to Mobha						•	•	•	10-7-03	9.21	1	1
Mobha to Masor Road .	•	•	٠		•	•	•		1-11-04	6.49	1	
Masor Road to Jambusar						• •		•	1-5-17	7.31	İ	1
										·	59.04	j
Timba branch												
Dabhoi to Jarod				•		•	•	•	15-11-13	23.84		1
Jarod to Samlaya 🌷 .				•	•	•	•	- 1	13-12-15	5.32	ł	ł
Samlaya to Timba .	•	•	٠	•	•	•	•	•	1-2-19	33.54	62.70	1
Bodeli extension-											02.10	1
Dabhoi to Gojapur Bahad	larnur						_		17-9-79	9.58	1	1
Gojapur Bahadarpur to B	lodeli	•		•			-		16-6-90	12.66	1	}
Gojaput Danautiput to 1	outu.	•	•	-	-	•	•				22 • 24	
Miyagam-Dabhoi branch—											l	ł
Miyagam to Dabhoi .				•		•	•	- 1	8-4-73	20.00	i .	į
								1		ļ	20.00	1
Miyagam-Malsar extension								- 1	15 1 10	00.07	1	1
Miyagam to Malsar .	•	•	•	•	•	•	•	•	15-1-12	23.67	23.67	
Choranda-Koral branch—								- 1			20 01	}
Choranda to Koral	_	_						.	18-11-21	11.62		ļ
Choranda to Ecotor		•									11.62	1
Molipura-Tankhala branch-										[(ĺ
Motipura (Chhuchhapura)	to Ta	nkhala		•	•		•	•	15-3-23	23.82	23.82	1
-				makal	n. h.	oi sect	ion	l		ł	223.09	1
		,		TOM	บลเก	OI RACI	AOH	•				1
					Carri	ed ove	r	. 1	•••	· · ·	223.09	Į

7. GAEKWAR'S BARODA STATE RAILWAYS SYSTEM-contd.

(b) Gaekwar's Baroda State railways (2' 6" gauge)—contd.

Progress in opening-concld.

Sect	ions o	f Rail	way.						Date of opening.	Miles.	Total.	Grand Total.
		1							2	3	4	5
				Brou	ght fo	rward		•	••	••	223.09	
Bilimora-Kala-Amba section—												
Bilimora to Rankuwa .								•	23-7-14	13.34		
Rankuwa to Unai						٠.			22-1-15	12.67		
Unai to Kalamba									1-5-17	8.99		
Kala-Amba to Dungardo		•							1-4-26	2.14		
Dungardo to Waghai .									1-11-29	1.97		ļ ,
		Tot	al Bıl	imora-	Wagh	ai sec	tion		••		39·11	
Kosamba-Zankhvav section—											Ė	
Kosamba to Zankhvav .									1-5-12	26.10	}	{
Zankhvav to Umarpada									1-7-29	12.59		
	1,0	otal K	osam	ha-Za	nkhva	v sec	tion				38.69	
Petlad Pihij section-									 			
Petlad to Vaso									10-12-14	15-11	-	
Veso to Pihn									17-4-15	3.65		
			Tot	al Petl	ad-Pıl	nj sec	tion				18.76	
l'etiad-Bhadran section—												
Petlad to Bhadran						-			1-6-22	13.41	}	
		Тα	tal P	etlad-]	Bhadra	ın se c	tion		••		13.41	
			Gra	nd tot	al ope	n mile	age				·	333.06

Details of construction-

Permanent-way.—On the Dabhoi section the line is relayed with 414 lb. flat-footed steel rails on wooden sleepers except the following:—

1 mile of Choranda Koral Railway is laid with 30 lb. flat footed rails. Masar Road-Jambusar, Miyagam Malsar, Dabhoi-Timba and Motipura-Tanakhala Railways are laid with 30 lbs. flat-footed rails on wooden Rectangular sal and half round Teak sleepers.

On the Bilimora-Waghai, Petlad-Pihij and Petlad-Bhadran sections the line is laid with 30-lb. flatfooted steel rails and wooden sleepers, except Dungarda to facing point of Waghai Station yard which is of 31 lb. rails.

The Kosamba-Zankhvav section is laid with 41½-lb. steel rails and half-round jungle teak and jarrah sleepers, and Zankhvav-Umarpada section is laid with 31 lb. rails and half-round rectangular sal sleepers.

Ballast.—The Dabhoi, Bilimora-Waghai, Petlad-Pihij, Petlad-Bhadran and Zankhvav Umarpada sections are ballasted with sand, gravel or moorum. The Kosamba-Zankhvav section is provided with metal ballast between stat one and sand ballast at station yards.

Fencing.—Only the station yards of the Dabhoi, Petlad-Pihij and Petlad Bhadran sections are fenced.

The rest of the lines are unfenced.

Curves.—The sharpest curve has a radius of 361 feet on the Petlad-Pihij line, of 500 feet on the Dabhoi line, of 600 feet on the Kosamba-Umarpada line and of 716 feet on the Bilimora-Waghai line.

Gradients.—The ruling gradient is 1 in 400 on the Dabhoi line, with small lengths of 1 in 100, 1 in 150, 1 in 193, 1 in 200 and 1 in 300, 1 in 500 on the Petlad-Pihij, 1 in 200 on Petlad-Bhadran line, 1 in 150 on the Bilimora-Dungarda line, 1 in 100 on Dungarda to Waghai, 1 in 200 on the Kosamba-Zankhvav line, with short lengths of 1 in 150, 1 in 125, 1 in 100, and 1 in 80 on Zankhvav-Umerpada extensions.

7. GAEKWAR'S BARODA STATE RAILWAYS SYSTEM-contd.

(b) Gaekwar's Baroda State railways (2' 6" gauge)—concid.

Agreement-

Nil .- The line is owned and worked by the Baroda State.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14).—

	Year.		Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross cornings.	Not earnings.	Percentage of net carnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
	1		2	3	4	5	n	7	8
			Miles.	It∢.	Ra.	Ra.		Rs.	
1913-14			168-10	56,57,433	6,92,753	3,25,163	5.75	79	53.00
1914-15			209.02	81,16,249	7,45,714	3,20,837	3.97	68	56.97
1915-16			218-86	97,43,476	8,25,688	3,25,890	3.45	. 72	60.53
1916-17			218.65	1,14,77,600	8,91,907	3,73,894	3.26	78	58.08
1917-18		- 1	234.22	1,35,22,422	9,43,030	4,19,576	3.10	77	55.50
1918.19		- 1	267.83	1,39 98,617	12,97,789	5,97,385	4.31	93	53.97
1919-20	•		267.58	1,46,69,424	13,13,001	3,62,341	2.47	94	72.40
1920-21	•		267.63	1,51,44,766	13,87,233	3,29,299	2-17	100	76.26
1921-22	•	- 1	279 25	1,80,83,521	12,87,961	1,46,852	0.81	89	88.60
1922 23			316.34	2,20,80,560	18,40,328	6,13,432		112	66-67
1023 24	•	•	315.73	2,31,51,214	23,12,492	6,13,920	2.65	140	73.41
1925 26	•	· ;	316.36	2,41,05,878	25,52 470	7,15,523	2 93	155	71.07
1926-27	•		316:30 318:50	2,54 83,722	27.80,867	9,01,968	3.24	169	67.57
1927.28	•	- 1	318.50	2,65,91,189 2,89,97,890	21,41,423	3,15,556	1·19 0·88	129	85.26
1928.29	•	i	318.50	2,91,73,136	22,14,699 24,27,358	2,54,439 2,80,038	0.88		88·52 88·44
1929-30	•	• 1	333-06	2,98,25,048	22,92,579	5,21,978	1.75	132	77.23
1930-31	•	• ;	333.06	2,99,77,687	21,13,309		1.12	122	84.01
1931.32	•		333-06		20.61.012	3,69,834	1.23	119	82.08
1932.33	•	:	333.05		22,81,671	6,60,681	2.18		71.08
1933-31	:		333.06		22,53,341	6,53,388	2.15	132	71.38
1931-35			333.06	3,09,96,573	21,33,692			123	75.46
1935-36			333.00	3,06,56,950	21,22,182	5,59,135	1.82	122	73.70
1936-37			333.06	3,06,75,308	22,37,351	6.49,879	2.12	129	70.95

(c) Khijadia-Dhari Railway (3' 33" gauge)-

The construction of this line by the Baroda Durbar was sanctioned by the Secretary of State for India in his despatch No. 16-Railway, dated the 7th February 1913, and up to 31st March 1934 it was maintained and worked by the Gondal Railway after which its maintenance and working were taken over by the Gaekwar's Baroda State Railway, with effect from 1st April 1934.

Progress in opening-

		Sec	tions	of rail	way.					1	Date of opening.	Miles.	Total.
	****		1								2	3	4
Khijadia to Gavadka Davadka to Chalala Chalala to Dhari		•				:	:	•	:	•	1-3-13 10-3-14 27-5-16	16·50 9·20 11·76	
						Total	Oper	Mile	ige.	.	}	37-46	
Under Construction or S	ianctio	ned fo	r Con	structi	ion							j	
Prachi Road to Kodi	nar]	16.10	
						G	Irand	Total					53.5

Details of construction-

Permanent-way.—The permanent-way consists of 414 lb. flat-footed steel rails laid on deodar and jodka teak sleepers.

Ballast.-The line is ballasted partly with moorum and partly with stone.

Fencing.—The station platforms only are fenced.

Curves.—The sharpest curve has a radius of 1,910 feet.

Gradients.—The ruling gradient is 1 in 100.

7. GAEKWAR'S BARODA STATE RAILWAY SYSTEM—contd.

Agreement-

The line was constructed by the Baroda Durbar at its own cost. Up to 31st March 1934 it was maintained and worked by the Gondal railway under the following terms:—

Actual expenditure, on maintenance, of way, works, stations and Police.

For other heads of expenditure, the same percentage as on the Gondal Railway proper but subject to a minimum of 45 per cent. and a maximum of 55 per cent. of the gross earnings.

Statistics of working. (Those for 1st quarter of 1913 will be found in Appendix 1 to the Railway Administration Report for 1913-14.) -

3	each year			Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in Column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
	1		2	3	4	5	6	7	8
			Miles.	Rs.	Rs.	Rs.		,Rs.	
1913-14 1914-15 1915-16 1915-17 1917-18 1918-19 1919-20 1920-21 1922-23 1923-24 1924-25 1925-26 1925-26 1925-27 1927-28 1929-30 1930-31 1931-32 1932-33 1933-34 1933-34			25.53 25.53 27.22 37.22 37.22 37.22 37.22 37.22 37.22 37.22 37.22 37.22 37.22 37.22 37.22 37.22 37.22 37.22 37.22 37.22 37.22 37.22	13,65,967 16,64,256 19,12,637 19,55,078 19,55,180 19,91,656 19,91,656 19,91,556 19,91,556 19,83,033 10,91,311 20,01,589 20,05,668 20,05,568 20,058 2	28,940 49,441 47,522 69,132 82,997 1,19,726 1,18,167 1,16,133 1,14,332 1,21,443 1,28,751 1,42,142 1,39,249 1,35,445 1,43,207 1,42,165 1,33,676 1,15,154 1,00,829 1,19,499 1,58,223 \$	14,940* 23,550 2,710 18,420 13,013 41,359 39,213 27,935 30,200 25,002 21,998 21,332 25,248 19,725 50,498 46,130 50,804 -17,396 1,646 54,003 §	1·09 1·42 0·24 0·94 0·67 2·11 1·97 1·40 1·52 1·26 1·10 1·07 1·26 0·98 2·52 2·30 2·51 0·250·86 0·08 2·66 §	33 37 36 38 43 62 61 60 59 63 67 72 70 74 73 69 59 52 62 82	48·38 52·34 94·30 73·36 84·32 65·40 66·82 75·95 73·55 79·41 82·91 84·99 81·86 85·44 64·74 67·55 62·00 95·58 117·25 98·62 65·87

^{*} Excluding expenses on maintenance of way, works and stations borne directly by the Baroda Durbar in its Capital account.

(d) Bodeli-Chhota Udaipur railway (2' 6" gauge)-

This line is the joint property of the Baroda and Chhota Udaipur Durbars. It was constructed by the Bombay, Baroda and Central India Railway Company and worked by that agency up to the 30th September 1921, after which date the maintenance and working were taken over by the Baroda Durbar.

Progress in opening-

	Sec	tion	of ra	ilway.	-				Date of opening.	Miles.	Total.
			1						2	3	4
Bodeli to Chhota Udaipur	٠		•	·	•	•	•	•	1-12-17	22.67	22.67

Details of construction-

Permanent-way.—The permanent-way consists of 411-lb. flat-footed rails laid on wooden sleepers.

Ballast. - The line is ballasted with sand.

Fencing. -- The line is fenced at important level crossings only.

Curves.—The sharpest curve is of 818 feet radius.

Gradients.—The ruling gradient is 1 in 200.

Agreement-

The line is to remain the joint property of the two Durbars and to be debited, for maintenance and working expenses, including cost of supervision and hire of rolling-stock, with the same percentage of gross earnings as may be incurred on the entires System for 12 years from the date of opening to the 31st March 1930, or until such time thereafter as the Chhota Udaipur Durbar may exercise the option reserved to them to purchase the half share of the Baroda Durba

[§] The statistics of working, from 1934-35, are included in the Gaekwar's Mehsana Railway.

7. GAEKWAR'S BARODA STATE RAILWAYS SYSTEM-concld.

Bodeli-Chhota Udaipur railway (2' 6" gauge)—concld.

Statistics of working-

- Year.	Mileage open at énd	Total capital ou suspense, to en i.e, outlay on and (ii) lines p under con	d of each year, (i) lines open, artly or wholly	Gross	Net ea	rnings.	Percentage of ings on tot outlay given	al capital	Earnings per milo per week.	expenses to
I ear.	of each year.	Contributed by the Baroda Durbar.	Contributed by the Chhota Udaipur Durbar,	earnings.(Attribut- able to the Baroda Durbar.	Attribut- able to the Chhota Udaipur Durbar.	On capital contribut- ed by the Baroda Durbar,	On capital contribut- ed by the Chhota Udaipur Durbar.	Earnings por 1	Proportion of earnings.
1	2	3	4	5	6	7	8	9	10	11
1917-18	Miles 22.56	Rs. 5,05,630	Rs. 5,05,630	Rs. 18,856	Rs. 6,576	Rs. 1,832	1.30	0.36	Rs. 48	55-41
1918-19	22.56	4,99,026	4,99,026	59,508	19,936	10,788	3.99	2.16	51	48.37
1919-20	22.56	5,09,598	5,09,598	68,357	20,222	806	3.97	0-16	58	69.24
1920-21	22.~6	5,12,714	5,12,714	77,294	20,453	1,281	3.99	0-25	66	71 68
1921-22	22.56	5,13,913	5,13,913	79,110	8 2	221	0	80	67	89.61
1922-23	22.67	5,13,717	5,13,717	88,166	20,551	12,090	4.00	0.24	75	62.08
1923-24	22.31	5,14,013	5,14,013	1,14,527	20,572	9,833	4.00	1.91	97	73 · 45
1924 25	22.67	5,16,572	5,16,572	1,09,806	20,600	11,300	4.00	2.18	93	70.95
1925-26	22.67	5,16,567	5,16,567	1,28,644	21,206	21,16	4.10	4.10	109	67 07
1926-27	22.67	5,16,567	5,16,567	93,176	20,662	-4,212	4.00	-0.81	79	82.35
					16,450		1.6	9	[
1927-28	22.67	5,16,567	5,16,567	1,09,618	20,663	—8,180	4.00	-1.58	93	88-61
1928-29	22.67	5,18,022	5,18,022	1,12,232	20,709	2,483 9 1 —7,097	3.99	-1.37	95	87.87
1929-30	22.67	5,20,743	5,20,743	99,462	20,80	3,612 3 (7,571	3.99	1.45	84	71-47
-				1		28,374 				
1930-31	22.67	5,26,744	5,26,744	98,343	20,85	5 2,176	3.96	0.41	83	76.58
		1			2:	3,031				
1931-32	22.67	5,27,901	5,27,901	1,10,565	21,08	~ 	3.99	2.12	94	70.82
		10,	55,802		3	2,262				1
1932-33	22.67	5,27,89	5,27,898	1,11,316	21,114	19,491	. 4.0 00	3.69	94	63.52
		1	,55,796		1	0,605				
1933-34	22.67		6 5,28,177	1,22,872	ļ		4.31	4.31	104	62.88
		10),56,353		1	5,604				1
1934-35	22.67	1	5,28,200	1,23,003	21,12	8 11,169	2 4.00	2.11	104	73.75
		1	,56,401		1	2,290			1	
1935-36	22.67	J		1,18,182	<u> </u>		3 4.00	2.39	, 100	71.41
		10	0,56,419	}		33,766				
1936-37	22.67	I	0 5,28,200	1,23,733			3.99	3.25	105	5 67.84
		to	0,56,419	1	1 3	39,786		Ì	1	1

8. GONDAL RAILWAY SYSTEM.

Lines comprised in the system—The Gondal railway system is made up of :-

											211103
(a) Gondal railway (3' 32" gauge) .											118.74
	•	•	-								46-16
(b) Jetalsar-Rajkot railway (3' 3%" gauge)	•	•	•	•	•	•	•	•	•	•	
(c) Porbandar State Railway (3' 32" gauge)					•		•	•	•	•	41 · 25
(0) 2010000000000000000000000000000000000								Total		_	206:15

(a) Gondal railway (3' 33" gauge)-

This line which was constructed by Government agency for the Gondal State (after which it is named) was worked up to the 31st March 1911 by an Administrative Coalition of the States of Bhavnagar, Gondal, Junagad and Porbandar, which was formed for the purpose of working as one undertaking the railways which, prior to that date, were comprised in the Bhavnagar-Gondal-Junagad-Porbandar railway system. The Coalition ceased to exist on the 1st April 1911, from which date up to the 31st March 1919, the lines owned by the Gondal and Porbandar States were worked together as one concern, styled the Gondal-Porbandar State railway. The partnership of the two States in that railway was dissolved and the Porbandar State railway was worked by the Gondal railway for 5 years, from 1st April 1919 to 31st March 1924, after which the working of the former was taken over by the Porbandar State. Working of Porbandar State Railway is handed over to Gondal Railway from 1st September 1936 as per agreement between two Darbars.

Progress in opening-

Secti	ons of I	railway	v.			1	Date of opening.	Miles.	Total.	Grand total.
Main line— Dhasa to Dhoraji Dhoraji to Jam Judhpi Kunkayay-Bagasra	ir .	:	:	•	•	:	19-1-81 1-10-89 24-10-36	73.69 32.55 12.50	•	
			Total	open	milen	ge .		•	118-71	118.74

Details of construction-

Permanent-way.—The permanent-way consists of 411-lbs. flat-footed steel rails on decoar, jodk: teak and steel trough sleepers, except for a length of 50 miles which is relaid with 50 lbs. flat-footed Revised B. S. S. Rails on decodar sleepers.

Ballast.—The line is ballasted with broken stone.

Fencing.—The line is practically unfenced.

Curves.—The sharpest curve is of 955 feet radius.

Gradients.—The ruling gradient is 1 in 200 except for a short portion between Dhoraji and Supedi and east of Paneli Moti Yard and near road under-bridge between Dhoraji and Supedi and at road over-bridge between Supedi and Upleta where it is 1 in 150 and except in approaches to dips where it is 1 in 40.

Agreement-

Nil.—The line is owned and worked by the Gondal State.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 1 to the Railway Administration Report for

					1	913-14.)				
	Year			Mileage open at end of each year	Total capital outlay, including suspense, to end of each year, s.e., outlay on (i) lines open, and (ii) lines partly or whelly under construction.*	Gross earnings.	Net earnings.	Percentage of net carnings on total capital outlay given in column (3).	Earnings per mile per week	Proportion of expenses to earnings.
	1			2	3	4	5	6	7	s
1648.14	·····.			Miles.	Rs. [Including the Porba				Its.	
1913-14 1914-15	•	•	•	148·01 148·01	71,22,318	9.85,264		6.86	128	47.65
1915-16	:	•	•	148.01	72,52,416 73,77,802	9,65,145 10,18,762	4,40,435 5,32,081	5 · 73 6 · 84	125 134	54.37
1916-17	•		•	148.01	74,77,144	10,18,762	4,80,728	6.08	134	47.77
1917-18	·			148.01	76,47,747	11,96,312	5,77,924	7.13	155	53·82 51·69
1918-19				148.01	79,29,884	15,88,137	7,48,872	8-94	206	52.84
1919 20				106 - 24	64,46,617	12,19,662	6,16,800	9.57	221	49.43
1920-21				106 · 24	70,99,640	11,98,697	3,99,183	5.62	217	66-64
1921-22				106 · 24	69,66,821	12,00,495	4,88,322	7.01	217	59.32
1922-23				100.24	70,27,170	13,41,274	5,33,727	7.60	213	60.30
1923-24			•	106-24	73,85,636	13,47,539	2,72,429	3.69	244	79.78
1924-25				106.24	72,33,604	13,41,619	2,70,959	3.75		79 80
1925-26			•	106.24	76,25,672	13,82,917	3,92,010	5.14	:57	71.65
1926-27	•	•	•	1^6 • 24	77,33,315	13.50,237	4,57,368	5.91		66-13
1927-28	•	•	• 1	106.24	79,73,843	14,82,796	6,91,840	8.68		53.34
1928-29	•	•	•	106.24	82,96,269	16,85,065	9,54,492	11.51		43.36
1929-30 1930-31	٠	•	•	106.24	88,48,275	15,69,478	8,44,523	9.54		46-20
1930-31	•	•	• !	106.24	97,55,140	14,83,642	5,54,468	5.68	269	62.63
1932-33	•	•	•	106.24	1,04,20,602	14,69,210	4,48,161	4.30		69.50
1933-34	•	•	• ;	106.24	1,05,87,742	14,73,687	7,48,914	7.07	267	49.18
1934-35	•	•	• }	106.24	1,08,16,297	14,64,026 !	7,93,844	7.34	265	45.78
1935-36	•	•	•	106·24 106·24	1,08,15,691	14,83,553	8,05,405	7.45		45.71
1936-37	•	•	• ;	118.74	1,12,39,379	12,82,396	5,54,938	4.94	232	56.73
1000001	•	•	• }	110.14	1,14,85,345	14,18,938	8,16,930	7.11	230	42.42

* Excluding outlay on the lines Porbandar to Porbandar Bandar and Ranawao to Quarry.

(h) Jetalsar-Rajkot railway (3' 3\frac{3}{8}" gauge)—

This line was constructed and was, up to the 31st March 1911, worked by the Administrative Coalition referred to under the Gondal railway. From the 1st April 1911 to the 31st March 1919 it was worked by the Gondal-Porbandar State railway, after which period the working was taken over by the Gondal railway,

8. GONDAL RAILWAY SYSTEM-contd.

(b) Jetalsar-Rajkot railway (3' 38" gauge)-concld.

progress to opening-

Section of railway.	Date of opening.	Miles.	Total.
Jetalsar to Rajkot Junction	12-4-93	46.16	46.16

Details of construction-

Permanent-way.—The permanent-way consists of 50-lb. flat-footed steel rails on deodar and jodka teak sleepers.

Ballast.—The ballast used is of broken stone.

Fencing.—The line is unfenced except between Rajkot Town and Rajkot Junction.

Curves.—The sharpest curve is of 700 feet radius.

Gradients.—The ruling gradient is 1 in 175 except for a short portion south of Rajkot Town Station where it is 1 in 100 and except in the north approaches of Bhadar bridg where the gradient is 1 in 67.

Agreement-

Memorandum of conditions for separate working, from 1st April 911, of the Kathiawar railways sanctioned in the Government of India, Foreign Department, letter No. 431-I.B., dated the 23rd February 1911, to the address of the Secretary to the Government of Bombay, Political Department.

Terms and conditions, dated the 14th December 1913, prescribed by the Railway Board, as to the maintenance, management and working of the Jetalsar-Rajkot railway.

Main provisions of Agreement-

(i) Land.—Provided, at the cost of the capital, by the Indian States through whose territories the line
passes.

(ii) Government aid.—Nil. The line is the property of the States of Junagad, Gondal and Rajkot and the Talukdar of Jetpur, who supply funds for any necessary additions thereto chargeable to the capital account. It is maintained and worked by the agency of the Gondal railway, which provides the rolling stock and other appliances, etc., necessary thereunto.

(iii) Terms of working.— 40* per cent. of gross earnings (subject to a biennial revi-*35 per cent. in those half-years in which the sion) are retained by the

(iv) Distribution of profits.—) gross earnings per mile per week exceed Rs. 50. working agency, plus actual expenditure on maintenance of way, works and stations, police charges and 5 per cent. of gross earnings for hire of rolling stock supplied by the working agency.

(v) Rates and fares.—

(vi) S ecial obligations as to the conveyance of—

(a) Troops, police, high Government officials and stores.—

The same as those in force on the Gondal railway.

(vii) Power of the Government to determine agreement.—The Railway Board shall exercise the powers of an arbitrator.

(viii) Power of the Proprietors to determine agreement.—Nil.

(ix) Term of agreement.—None specified.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Rallway Administration Report

	Ū	`	for 19	07 and in Appendix 1 to	the Report fo	or 1913-14.)—			
, Year	Year.		Mileage open at end of each year.	Total capital outray, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings. 5	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1913-14 1914-15 1916-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1232-24 1924-25 1925-26 1926-27 1927-28 1928-29 1929-30 1930-31 1931-32 1933-34			Miles. 46·21	Rs. 16,20,100 16,20,937 16,33,978 16,33,978 16,53,255 16,53,255 17,02,932 17,09,987 17,90,926 18,90,763 20,04,167 20,08,873 21,02,572 22,04,115 22,09,475 22,12,270 23,04,310 24,64,672 26,85,662 26,85,662 28,52,671	Rs. 4,07,551 4,09,160 4,40,225 4,70,142 5,19,197 7,03,549 7,97,327 7,19,009 6,94,546 7,79,142 8,08,771 8,48,911 8,20,718 7,76,655 8,49,040 9,58,491 9,01,015 8,68,440 9,68,691 9,71,863	Rs. 2,18,847 2,11,178 2,31,636 2,30,053 2,70,782 3,48,166 3,81,187 1,20,513 1,58,198 1,10,479 4,63,439 4,26,345 3,90,678 4,23,269 5,32,271 5,05,920 4,72,421 3,93,263 3,86,792 5,05,319 4,07,448 4,02,150	13-51 12-98 14-18 14-08 16-38 21-06 22-38 7-05 8-83 5-84 23-12 21-22 19-01 19-20 24-09 22-87 20-59 15-96 14-40 18-82 14-28	Rs. 170 170 183 199 216 293 294 289 324 337 353 342 323 353 363 371 403 404	46·30 48·39 47·38 51·99 47·85 50·61 46·11 83·24 77·23 85·82 42·62 49·78 51·30 45·43 37·31 47·22 47·57 54·72 56·67 47·83 58·08 47·83
1934-35 . 1935-36 . 1936-37 .	:	:	46·16 46·16 46·16	28,52,671 28,52,671 29,00,671	9,28,663 9,19,884 8,71,294	4,93,924 4,66,869	17·31 16·10	383 363	46·31 46·42

8. GONDAL RAILWAY SYSTEM-concld.

(c) Porbandar State Railway (3' 33" gauge).

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.	Remarks.	
Main line— Jam Jodhpur to Porbandar Porbandar to Porbandar Bandar	1-10-89 15-3-90	36·04 *1·51	37.55		* Worked for goods traffic only.	
Quarry branch— Ranawao to Quarry	17-12-89	*3.70	3.70			
TOTAL .	••		••	41.25		

Details of construction-

Permanent-way.—The permanent-way consists of 41½-lbs. and 50-lbs. flat-footed steel rails on sal, jodka teak and steel trough sleepers.

Ballast.—The line is ballasted with broken stone.

Fencing.—The line is practically unfenced.

Curves.—The sharpest curve is of 528 feet radius.

Gradients.—The ruling gradient is 1 in 150, except on Ranawao Quarry line where it is 1 in 67 and in dip approaches where it is 1 in 50.

Agreement-

The line is owned by the Porbandar State and worked by the Gondal Railway as per agreement between two Darbars.

Etatistics of working-

Уеаг.	Mileage open at end of each year.	Total capital outlay including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8
	Miles.	Rs.	Rs.	Rs.		Rs.	
1919-20	41.29	16,77,108	3,80,078	2 22,676	13.28	177	41-41
1920-21	41.29	16,77,108	3,86,928	2,20,802	13.17	180	42.93
1921-22	41.29	16,48,436	4,20,919	2,54,112	15.42	196	39.63
1922-23	41.29	17.57.885	4,42,507	2,62,586	14.94	206	40.66
1923-24	41 · 29	18,38,538	3,66,495	1,77,114	0.63	171	51 · 67
1924-25	41 · 29	23,26,159	3,65,431	83,091	3.57	171	77.26
1925-26	41.29	23,76,343	4,09,175	79,516	3.34	190	80.57
1926-27	41.29	24,00,388	3,98,413	82,238	3.43	185	79.36
1927-28	41.29	24,94,973	4,44,196	1,73,176	6.94	207	61.01
1928-29	41.29	26,06,930	4,51,852	1,43.154	5.49	210	68.32
1929-30	41.29	28,03,687	4,10,908	94,109	3.36	191	77.10
1930-31	41.29	28,18,228	3,83,751	11,507	0.41	179	97.00
1931-32	41.29	28,24,635	3,42,166	62,631	2.22	159	81.70
1932-33	41.29	28,27,134	3,36,091	1,30,314	4.61	156	61.22
1933-34	41.29	28,15,979	3,10,645	1,29,427	4.60	145	58.34
1934-35	41.29	28,67,111	3,32,003	1,40,306	4.90	155	57.74
1935-36	41 . 29	28,30,138	3,49,884	1,54,190	5.45	163	55.93
1936-37	41 · 25	23,17,476	3,41,518	99,175	4.28	159	70.96
	<u> </u>	<u> </u>		<u> </u>	1		<u> </u>

9: JAIPUR STATE RAILWAY.

Jaipur State railway (3' 33" gauge). Progress in opening—

	Sectio	ns of ra	ilway	•					Date of	Miles.	Total.	Grand total.	
		1							opening.	3	4	. 2	
fain line— Sanganer to Nawai .	•			•	•	•			10-11-05	32.15			
Nawai to Sawai-Mádhor	our .	•							17-10-07	41-19			
hunjhunu extension— Jaipur to Reengus .									19-12-16	35.50	73.34		
Reengus to Palsana .									6-4-18	14-14			
Palsana to Sikar .					•				1-12-22	17-02			
Sikar to Nawalgarh .									18-9-23	16.95		!	
Nawalgarh to Jhunjhun	u.	•							1-8-24	22.85	106-46	1	
			:	Fotal	open	mileag	e.		.,		179.80	- <u> </u> 	

Details of construction-

Permanent-way.—The permanent-way consists of 411-lb. flat-footed steel rails laid on sal and deodar sleepers.

Ballast.—The line is ballasted with stone.

Fencing.—The line is unfenced except at stations and at points where the line crosses the main roads.

Curves.—The sharpest curve is of 955 feet radius.

Gradients.—On Sanganer-Sawai Madhopur Section the ruling gradient is 1 in 250, except for 4 miles and 1,080 feet at the beginning of the line where it is 1 in 200. On Jaipur-Jhunjunu section the ruling gradient is 1 in 200, except on Reengus-Sikar portion where it is 1 in 150.

Agreement-

The working of the line has been taken over by the Jaipur Darbar with effect from the 1st April 1936. As from that date the agreement as per Railway Board's letter No. 1310-R.T., dated the 30th October 1907, as to the payment of rebate to the Jaipur Darbar in respect of the Sanganer-Sawai Madhopur section and the agreement, dated the 21st December 1918, between the Jaipur Durbar and the Bombay, Baroda and Central India Railway Company, as to the management, maintenance and working of the Jaipur State Railway by the Company have been terminated.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14.)—

Year,	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8
•	Miles.	Rs.	Rs.	Rs.		Rs.	
1913-14	72.84	24,74,723	3,12,429	1,57,262	6.35	82	49.66
1913-14 1914-15	72.84	31,40,371	2,94,080	1,40,235	3.85	78	52.31
1915-16	72.84	45,76,524	3,94,842	2,09,788	4.58	104	46.87
1916-17	107.22	51,70,743	4,46,928	2,54,947	4.93	104	42.96
1917-18	108.04	- 54,07,542	3,82,033	2,13,839	3.95	68	44.03
1918-19	122-21	56,08,493	4,64,863	2,59,828	4.63	73	44-11
1919-20	122.21	57,03,635	5,03,095	2,24,945	3.94	79	55.29
1920-21	122.21	59,73,142	5,70,858	1,86,277	3.12	90	67.37
1921-22	122.21	63,25,789	6,64,047	1,59,772	2.53	104	75·94°
1922-23	139 • 23	68,69,867	7,96,496	2,42,854	3.54	110	69.51
1923-24	156.18	73,45,929	7,49,292	3,04,386	4.14	103	59.38
1924-25	179.10	76,64,086	9,83,499	4,18,972	5.47	106	57.42
1925-26	179.10	76,83,831	10,44,838	4,04,666	5.27	112	61.27
1926-27	181 · 11	76,85,831	10,37,665	3,86,010	5·02 5·54	110 119	61.93
1927-28	181.11	76,95,647	11,19,623	4,26,231	6.34	122	57.64
1928-29	181.11	77,06,749	11,52,747	4,88,319	6.25	132	61.18
1929-30	181.11	77,30,338	12,44,872	4,83,204	5.43	129	65:31
1930-31	181.11	77,33,441	12,11,623	4,20,332 4,37,544	5.66	116	60.10
1931-32	181 · 11	77,34,661 76,62,319	10,96,665 11,84,321	5,04,771	6.59	126	57.38
1932-33	181.11	76,62,319	11,14,229	5,02,122		118	54.94
1933-34	107.77	76,62,319	11,14,225	4,74,680	,	120	57.88
1934-35 · · · 1935-36 · · ·	179·80 a		11,85,191	5,28,721	1 1 11	127	55.39
1936-37	179.80	88,23,798	12,39,785	5,97,286		132	51.82
1000-01	1 00	1	1 -2,50,.00	1 -,5.,	1	1	l .,

⁽a) The change is due to remeasurement of track made by the B. B. & C. I. Railway in 1934-35 as advised by the Engineer in-Chief, Ajmer, in his letter No. E/5-14, dated the 5th January 1937, to the Agent, Jaipur State Railway.

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10. JAMNAGAR DWARKA RAILWAY SYSTEM (3' 3%" gauge).

Lines comprised in the system

The Jamnagar Pwarka railway system is made up of-

			Open line.	Under construction or sanctioned for construction.	Total.
			Miles.	Miles.	Miles.
(a) Jamnagar railway (3' %" gauge)	•		54 • 22	••	54.22
(b) Jamnagar Dwarka railway (3' 3% gauge)		٠	65.92	••	65.92
(c) Okhamandal railway (3 ' 3' gauge)			37.21	••	37.21
	To	rai.	157.35	• •	157.35

Agreement-

The three railways comprised in the system are worked from 4th April 1923 under one management under the terms of an agreement between the Nawanagar and Baroda Darbars and the Jamnagar Dwarka Railway Company.

Main provisions of agreement-

- (i) Land.—Provided by the Nawanagar and Baroda Darbars free of cost.
- (ii) Aid by the Durbars and the Company.—All funds required for the construction of the Jamnagar and Okhamandal railways were provided by the Nawanagar and Baroda Darbars and those for the Jamnagar Dwarka Railway by the Company.
- (iii) Terms of working.—Gross earnings are credited to the railway concerned and working expenses divided on the basis of actuals wherever possible and on train mileage, vehicle mileage or other agreed upon basis in other cases.
- (iv) Distribution of profits.—The gross earnings, after deduction of working expenses, are credited to the proprietors of the three railways.
- (v) Rates and fares.—The rates and fares are charged within the maxima and minima authorised from time to time by the Railway Board.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—To be conveyed at the rates and on conditions generally in force on State railways.
 - (b) Government bullion and coin and persons in charge thereof.—At rates sanctioned by the Railway Board.
- (vii) Power to determine agreement.—
 (viii) Power of the coalition to surrender agreement.—

 One year's notice.
- (ix) Term of agreement [if not determined under (vii) and (viii)].—Nil.

(a) Jamnagar Railway (3' 33" gauge)-

The Jamnagar Railway was constructed for the Nawanagar State and was, up to the 31st March 1911, worked by an Administrative Coalition of the States of Bhavnagar, Gondal, Junagad and Porbandar, which was formed for the purpose of working as one undertaking the railways which, prior to that date, were comprised in the Bhavnagar-Gondal-Junagad-Porbandar Railway. The Coalition ceased to exist on the 1st April 1911, from which date and up to the 3rd April 1923, the line was worked independently as a separate concern. With effect from the 4th April 1923, the line became part of the Jamnagar and Dwarka Railway combined system.

Pt	ogt	ess	ın	open	ing	-

Sections of railway.		Date of opening.	Miles.	Total.	REMARKS.
1		2	3	4	5
Rajkot Junction to Jamnagar , Jamnagar to Bedi Bandar	: :: :	8-4-97 8-4-97	50·29 *3·93		* Worked for goods traffic
	TOTAL .		••	54.22	only.

Details of construction-

Permanent-way.—The permanent-way consists of 50-lb. flat-footed steel rails on half-round jodka teak sleepers.

Ballast.—The ballast used is of broken stone.

Fencing.—The line is unfenced, except at the approaches to the Victoria bridge near Jamnagar and to the south of the Jamnagar station yard.

Curves.—The sharpest curve is of 1,000 feet radius.

Gradients.—The ruling gradient is 1 in 150.

Agreement -

As above.

10. JAMNAGAR DWARKA RAILWAY SYSTEM—contd.

(a) Jamnagar Railway (3' 3\square gauge)-concld.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14.)—

Year.	Mileage open at end of each year.	Total capital outlay including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
11	2	3	4	Б	6	7	s
1913-14 1914-15 1915-16 1916-17 1917-18 1916-19 1919-20 1920-21 1921-22 11-22-23 1923-24 1924-25 1925-26 1926-27 1927-28 1928-29 1928-29 1928-29 1928-29 1928-29 1928-29 1930-31 1931-32 1932-33 1933-34 1934-35 1935-36 1936-37	Miles. 54 · 22	Rs. 23,53,951 23,70,800 23,96,173 24,08,946 24,25,901 24,75,036 25,83,031 27,68,321 28,51,994 29,94,796 30,13,369 31,12,576 32,31,113 33,10,560 47,21,038 48,95,316 50,24,987 51,16,457 50,25,402 49,81,242 49,81,242 49,85,584 49,95,195 49,92,280 50,33,261	Rs. 2,91,782 3,01,245 3,23,354 3,43,360 3,74,024 4,94,448 5,15,237 4,56,631 5,18,095 5,54,087 6,45,923 6,22,181 6,97,920 6,93,165 9,85,752 10,39,832 10,39,832 10,39,832 7,76,515 8,25,798 8,05,592 7,03,518	Rs. 1,55,756 1,09,605 1,45,755 1,46,315 1,70,505 2,73,205 2,77,692 2,08,453 2,27,363 2,03,520 2,76,172 2,15,405 2,93,085 2,84,646 4,36,308 4,26,401 1,21,085 1,98,811 1,28,5490 3,88,640 3,89,114 3,06,293	6·62 4·62 6·08 6·07 7·28 11·04 10·75 7·53 7·97 6·80 9·16 6·92 8·71 6·92 8·71 6·02 5·75 2·41 3·99 5·73 7·78 7·78 7·78	Rs. 103 107 115 122 133 175 183 162 184 196 229 221 247 246 350 369 320 315 290 273 2275 292 286 250	46·62 63·62 54·92 57·39 52·81 44·75 46·10 54·35 50·12 63·27 57·24 65·38 58·01 58·94 55·84 58·90 66·46 66·89 85·20 74·16 63·23 52·24 51·70 56·46

(b) Jamnagar Dwarka Railway (3' 3%" gauge)-

This line was constructed by the Jamnagar Dwarka Railway Company and worked by the Jamnagar Railway from the 1st April 1922 to the 3rd April 1923. With effect from the 4th April 1923 it became part of the above system.

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.	Grand total.
1	2	3	4	5
Jamnagar to Khambhalia	1-4-22	33.56		
Khambhalia to Kuranga	1-9-22	32.36		
GRAND TOTAL OPEN MILEAGE .			65 • 92	

Details of construction-

Permanent-way.—The line between Jamnagar and Khambhalia and the first 4½ miles between Khambhalia and Kuranga are laid with 50-lb. flat-footed steel rails, British Standard Section, and the rest with 41½-lb. rails. The sleepers are half-round jungle and jodka teak, except at joints and turnouts where square sleepers are used.

Ballast .- This consists of hard moorum.

Fencing.—The line is unfenced except at stations and within the town limits of Jamnagar.

Curves .- The sharpest curve is of 1,910 feet radius.

Gradients.- The ruling gradient is 1 in 150.

Agreement-

As above.

10. JAMNAGAR DWARKA RAILWAY SYSTEM-concld.

(b) Jamnagar Dwarka Railway (3' 33" gauge)—concld.

Statistics of working-

Year,	Mileage open at end of each year.	Total capital outlay including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to carnings.
1	2	3	4	5	6	7	8
1922-23	Miles. 65-92 65-92 65-92 65-92 65-92 65-92 65-92 65-92 65-92 65-92 65-92 65-92 65-92	Rs. 58,99,714 63.92,760 65,85,339 66,32 593 67,60,633 67,76,663 67,86,770 67,94,564 68,20,311 68,33,593 68,39,819 68,26,945 68,36,827 68,31,225	Rs. 52,808 2,93,944 2,56,438 3,05,072 2,94,195 3,84,849 4,16,132 3,75,438 3,52,417 3,32,847 3,27,998 3,19,176 3,44,332 2,97,277	Rs, 43,005 91,010 46,007 1,00,559 1,03,496 1,65,057 1,55,271 93,289 1,18,339 71,509 69,983 1,07,310 1,53,130 1,33,498 92,500	0·73 1·42 0·70 1·52 1·56 2·44 2·20 1·38 1·73 1·05 1·05 1·05 1·57 2·24 1·95 1·35	R4. 19 86 75 89 86 112 121 109 103 99 96 93 100 91 87	17-31 69-04 82-04 67-04 64-14 67-11 62-69 75-15 66-42 78-49 78-66 66-38 55-53 58-52 68-88

(c) Okhamandal Railway (3' 33" gauge)—

The line is the property of His Highness the Maharaja Gaekwar of Baroda. It was constructed and worked by the Gaekwar's Baroda State Railways up to the 3rd April 1923. With effect from the 4th April 1923, this line and the Jamnagar Dwarka Railway have been amalgamated with the Jamnagar Railway and form what is known as the Jamnagar Dwarka Railway. Progress in opening-

S	ection of ra	ilway.					Date of opening.	Miles	Total.
Kuranga to Okha	٠.		•	•	•	•	15-11.22	37-21	37.21
Details of construction—						 			

Details of construction-

Permanent-way.—The permanent-way consists of 411-lb. flat-footed steel rails laid on wooden sleepers some square and some half-round. The whole section is to be renewed with 60-lb. rails on a programme basis at 4 miles a year. Up to 31st March 1930, 8 miles have been so renewed.

Ballast .-- The line is ballasted with stone.

Fencing.—Nil.

Curves.—The sharpest curve is of 1,910 feet radius.

Gradients.—The ruling gradient is 1 in 150.

Agreement-

As above.

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross carnings,	Not earnings.	Percent- age of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
<u> </u>	2	3	4	5	6	7	
1922-23 1923-24 1923-24 1924-25 1925-26 1926-27 1927-28 1928-29 1929-30 1930-31 1931-32 1932-33 1933-34 1934-35 1935-36	Miles. 37-03 37-03 37-03 37-21 37-21 37-21 37-21 37-21 37-21 37-21 37-21 37-21 37-21 37-21	Rs. 26,75,359 32,62,508 32,96,967 35,50,833 36,00,230 35,74,904 39,57,816 43,35,128 42,33,304 42,38,731 42,94,334 41,04,729 41,05,124 40,76,407 40,73,549	Rs. 55,590 1,96,518 1,38,457 1,25,566 1,18,803 1,58,348 2,36,095 2,39,448 2,02,383 2,37,150 2,93,308 3,04,808 3,20,784 3,50,385 3,14,665	Rs. —71,923 39,707 20,650 11,740 12,366 32,889 6,375 —57,780 —44,634 28,719 1,18,780 94,562 1,65,858 1,53,051	1·22 0·63 0·34 0·92 0·16 —1·35 0·68 2·76 2·90 2·30 4·07 3·76	Rs. 30 102 72 65 61 82 122 123 105 122 152 167 166 181 163	8 222.76 70.70 85.14 90.65 80.50 79.23 97.30 124.13 122.05 87.89 50.50 60.95 70.52 52.66 51.36

11. JUNAGAD STATE RAILWAY (3' 3% gauge).

The main line up to Veraval Docks was constructed by Government agency for the Indian State of Junagad (after which it is named). Up to the 31st March 1911, it was worked by an Administrative Coalition of the States of Bhavnagar, Gondal, Junagad and Porbandar, which was formed for the purpose of working, as one undertaking, the railways which, prior that date, were comprised in the Bhavnagar-Gondal-Junagad-Porbandar Railway. The Coalition Ceased to exist on the 1st April 1911, on and from which date the line is being worked independently as a separate and distinct railway. Since working independently branches have been extended to Saradiya, Visavadar, Dhari and Delvada.

Section	s of	railw	ıy.				,	Date of opening.	Miles.	Total.	Grand total.
Main line-											
Jetalsar to Junagad								1-9-88	16.00		
Junugad to Veraval Docl	CB	•				٠.		1-2-89	51.53	67.53	į
Saradıya branch—								1 2 90	01 00	0, 00	[
Shapur to Manavadar								15-2-10	15.86		
Manavadar to Bantwa								25-12-10	3.45		1
Bantwa to Saradiya					•			15-5-15	7.00		
Visavadar branch—										26.31	İ
Junagad to Bilkha .						•		20-5-12	13.64	20 01	
Bilkha to Visavadar					•	•		15-2-13	12.92		1
Una Branch—										26.56	Ì
Veraval to Talala .	•	•		•	٠			2-4-18	15:38		l
Talala to Jambur .	•							17-3-20	4.86	1	1
Jambur to Prachi Road								13-11-23	7.64		
Prachi Road to Jamwala			•					18-4-34	7.05	1	}
Jamwala to Delvada .								10-1-35	24.22	ì	ļ
Dhari Branch-										59-15	1
Visavadar to Dhari								15-12-32	19.49	00 20	
Talala Visavadar Branch-								1		19.49	1
Talala to Sasan Gir						٠.		17-3-36	10.83	10.83	
Dungarpur quarry line					•	•		10-12-12	0.73	0.73	-
•	Cota	l oper	n mile	age						·	210.60
Under construction or sanc	tion	ed for	consti	ruction	n—			1	1	ĺ	. 220 00
Sasangir to Visavadar						ober 1	1929)	••		18.62	18.62
				Gr	AND !	TOTAL					229 • 22

Details of construction-

Permanent-way.—The permanent-way consists of 50-lb. flat-footed rails for the main line (except station yards) and 41½ lb. flat-footed steel rails for the branches, on jodka teak sleepers with a very small proportion of other timbers.

Ballast.—The main line is ballasted with stone, the branches with moorum on banks and stone in cuttings.

Fencing.—The line is unfenced except for short portions in the immediate vicinity of Junagad town. Curves.—The sharpest curve is of 1,200 feet radius.

Gradients.—The ruling gradient is 1 in 150 with the exception of short lengths of 1/100 on the approaches of the Ozat bridge, main line.

Agreement -

Nil.—The line is owned and worked by the State of Junagad.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 1 to the Railway Administration Report

		I(or 1913-14.)	·			
Year.	Mileage open at end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.		Gross earnings.	Net earning•.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8
1913-14 1914-15 1915-16 1916-17 1917-18 1918-19 1919-20 1920-21 1922-23 1922-23 1923-24 1924-25 1925-26 1926-27 1927-28 1928-29 1928-29 1929-30 1930-31	Miles. 113·42 113·90 120·90 120·90 135·60 135·60 140·46 140·46 148·10 148·10 148·10 148·33 148·33	Rs. 60,44,323 62,46,354 64,08,751 66,60,644 73,58,833 77,58,442 82,29,456 97,33,733 1,01,84,179 1,04,88,108 1,05,22,022 1,09,80,958 1,10,18,742 1,11,96,481 1,12,41,464 1,13,84,036 1,16,61,430 1,17,99,771 1,21,43,411	Rs. 6,18,701 6,21,293 6,96,353 7,49,201 8,14,346 9,08,268 10,54,451 11,25,490 11,21,646 12,91,867 14,28,708 14,00,185 15,01,864 13,76,338 14,00,446 15,44,257 14,35,095 13,84,972 13,52,247	Rs. 2,97,380 2,92,418 3,40,103 3,68,837 1,74,236 5,61,594 5,35,560 5,26,637 4,54,587 5,18,824 4,08,601 6,47,934 6,87,272 5,29,513 4,95,024 6,47,674 5,65,333 4,06,510 3,84,954	4·92 4·68 5·33 5·54 2·37 7·24 6·51 4·46 4·95 4·45 5·90 6·24 4·73 4·40 5·69 4·85 3·45 3·17	Rs. 105 105 111 119 130 142 150 154 177 186 182 195 179 182 201 186 180 175	51·93 52·93 51·16 50·77 78·60 43·74 49·21 53·21 53·47 59·84 67·20 53·73 54·24 61·53 64·65 58·06 60·61 70·65 71·63
1931-32 · · · 1932-33 · · · 1933-34 · · ·	167·82 167·82	1,26,79,727 1,33,04,641	13,24,706 16,10,409	4,71,639 7,03,282	3·72 5·29 5·27	165 185 180	64·40 56·33 56·05
1934-35 · · · 1935-36 · · · · · · · · · · · · · · · · · · ·	199·09 210·60 210·60	1,40,75,685 1,49,74,588 1,59,96,349	16,86,970 16,73,328 18,10,110	7,41,425 6,47,740 8,34,214	4·33 5·22	161 165	61·29 53·91

12. MORVI RAILWAY (3' 38" gauge).

The whole line was originally on the 2' 6" gauge. In 1905 the length between Wadhwan and Rajkot was converted to the 3' 3\frac{3}{8}" gauge—from Wadhwan to Than Road, 31 34 miles, on a new alignment and onwards to Rajkot, 42 60 miles, on the original alignment with a few unimportant diversions. The line between Wankaner and Morvi was converted in 1924.

2. The Morvi-Navlakhi line, 29.93 miles, which was hitherto worked as a Metre Gauge Tramway of the Morvi State, was opened as a Metre Gauge (3' 3\frac{3}{3}'') Railway on and from 15th December 1934 and is worked from that date as an integral part of the Morvi Railway. The Morvi-Navlakhi line was commenced in 1891 as a Morvi State Tramway on 2'-6" gauge and was subsequently converted into Metre Gauge Tramway on and from 29th March 1933. Conversion of the Metre Gauge Tramway into a Railway of the same gauge was sanctioned under Railway Board's Notification No. 1917-W of 8th October 1934.

Progress	in	One	กกัก	٣

Sections of railway.	Date of opening.	Miles.	Total.	Remarks.	
1	2	3	4	. 5	
Main line— Wadhwan to Rajkot Junction	*4-3-05	73.94	••	* These are the dates of open- ing on 3' 31' gauge.	
Branches Wankaner Junction to Morvi	*6-6-24	15.83		The dates of opening on 2' 6' gauge were:— Wadhwan to Wankaner, 1886.	
Than Junction to Chotila	16-6-26	12.56	••	Wankaner to Morvi, 1887. Wankaner to Rajkot, 1890.	
Morvi to Navlakhi	15-12-34	29.03			
Total .	'	••	132.26	i	

Details of construction-

Permanent Way.—The permanent way on the main line from Wadhwan Junction to Rajkot Junction consists of 50-lbs. flat-footed British standard steel rails on half-round teak sleepers while that on the branch lines from Wankaner Junction to Morvi and Than Junction to Chotila consists of 412-lbs. flat-footed steel rails on half-round teak sleepers. On Morvi-Navlakhi line the permanent way consists of 411-lbs. flat-footed steel rails on half-round teak as well as sâl wood sleepers from Mile N/1 to Mile N 19/4. From Mile N 19/4 to Mile N 29/7. 411 lbs. Steel flat footed rails of 30' length on half round teak sleepers have been replaced by 50 lbs. new standard F. B. rails of 36' length on new half round jodka steel sleepers.

Ballast.—The whole line is ballasted with stone ballast.

Fencing.—The line is unfenced.
Curves.—The sharpest curve is of 8° or 716.25 feet radius.

Gradients.—The ruling gradient of the whole line is 1 in 150.

Nil.—The line was constructed by His Highness the Maharaja Saheb of Morvi, at his own expense, and is maintained and worked by him.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 88 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14).—

Y				Total capital outlay, including suspense to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross enrnings,	Net earnings.	Percentage of net earn- ings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
	1		2	3	4	5	6	7	8
			Miles.	Rs.	Rs.	70-			
1913-14			92.83	52,11,157	7.76,902	Rs.	0.0-	Rs.	
1914-15	•	•	92.83	52,83,719	7,76,902	5,03,049 4,86,346	9·65 9·24	161	35.25
1915-16	•	:	92.83	53,80,469	7,73,044	4,92,318	9.15	159 160	36.59
1916-17	•	·	92.83	53,60,305	8,68,311	6,23,172	11.63	180	36.31
1917-18	:	·	92.83	53,76,628	9,76,455	7.14.137	13.28	202	28.26
1918-19			92.83	53,58,754	14,44,127	10,26,490	19.16	202	26.86
1919-20			92.83	54,15,644	12,89,149	8,04,520	14.86	267	37.59
1920-21			92.83	56,28,763	13,04,368	7,84,161	13.92	270	39.88
1921-22			92.83	56,76,624	12,78,134	7,07,574	12.46	265	44.64
1922-23			92.83	58,71,475	14,74,018	6,65,895	11.34	305	54.82
1923-24			92.83	62,62,951	16,14,195	6,86,676	10.96	334	57.46
1924-25			89.77	65,22,163	15,68,430	5,00,024	7.67	335	68.12
1925-26			89.77	68.52,484	16,27,765	6.71.562	9.80	349	58.74
1926-27		•	102.33	74,03,843	16,65,015	6,14,835	8.30	321	63-07
1927-28	•	•	102 · 33	76,60.927	18,47,949	8,02,040	10.47	347	56-60
1928-29	•	•	102.33	77,82,053	21,42,581	10,26,558	13.19	402	52.09
1929-30	•	•	102.33	78,34,955	21,04,884	9,61,562	12.27	396	54.32
1930-31	•	•	102.33	80,48,268	20,33,496	8,01,613	9.96	382	60.58
1931-32	٠	•	102.33	82,14,943	17,78,600	7,55,099	9.19	334	57.54
1932-33	•	•	102.33	82,43,935	16,61,849	6,44,431	7.82	312	61.25
1933-34	•	•	102.33	82,85,897	16,06,138	5,98,508	7.22	301	62.74
1934-35	•	•	132.26	1,06,28,363	17,97,098	8,13,456	7.65	310	54.73
1935-36	•	•	132.26	1,09,56,086	18,80,186	8,28,653	7.56	273	55.93
1936-37_	•		132.26	1,11,49,626	18,15,695	7,79,632	6.99	264	57.06

12. MORVI RAILWAY (3' 3%" gauge).

(b) MORVI TRAMWAY

Statistics of working-

Year.	Mileage open at end of each year.	pen at i.e., outlay on end of (i) lines open and		Next earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per milo per week.	Proportion of expenses to earnings.
- 1	2	3 .	4	5	6	7	8
1936-37	Miles.	Rs. 10,14,698	Rs. 78,470	Rs. 36,763	Rs. 3·62	Rs. 25	146-84

Note—Other particulars in respect of this Tramway are being collected.

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13. MYSORE RAILWAYS SYSTEM.

The Mysore Railways System is made up of—

a) b b) b) b) b) b) b) b) b) b) b) b) b)	Ţ	Inder construction or	
•	Open lines.	sanctioned for construction.	Total.
	Miles.	Miles.	Miles.
(a) Mysore Railways (3' 3% gauge)	. 321.90	16.22	338-12
(b) Bangalore Chik Ballapur Light Railway (2' 6' gauge) .	38.63	• •	38-63
(c) Kolar District Railway (2' 6" gaugo)	63.57	••	63.57
(d) Tarikero-Narasimharajapura Light Railway (2' 0" gaugo)	. 20.60	••	26.60
Total	450.70	16.22	466.92

(a) MYSORE RAILWAYS (3' 38" gauge).—

These lines are the property of His Highness the Maharaja of Mysore. Of the seven sections, the Bangalore-Mysore, Mysore-Nanjangud and Birur-Shimoga sections were maintained and worked by the Madras and Southern Mahratta Railway Company, as part of its undertaking up to the 30th September 1919. With effect from the 1st October 1919, they were taken over by the Mysore Government to be maintained and worked as one concern in conjunction with the other metre gauge sections.

The Nanjangud-Chamarajanagar Railway has been constructed from funds provided by the Mysore District Board.

Progress in opening-

Sections of ra	ilway.					Date of opening.	Miles.	Total.	Grand total,
1						2	3	4	3
Bangalore extension— Mysore to Mandya . Mandya to Channapatna . Channapatna to Bangalore .	:	:	:	:	•	25-2-82 20-3-81 1-2-81	27·95 23·31 34·75	1	
Nanjangud extension— Mysore to Nanjangud Nanjangud to Nanjangud town	:				•	1-12-91 12-7-99	15·04 0·76	.86-01	
Arsikere extension— Mysore to Arsikere				٠	•	3-1-18	102.95	15-80	
Birur-Shimoga section— Birur to Shimoga .	•			•		1-12-99	37.74	102.95	
Chickjajur-()hitaldrug section— Chickjajur to Chitaldrug						5-1-21	20.90	37.74	
Nanjangud-Chamarajanagar section — Nanjangad to Chamarajanagar				•		27-8-26	22.29	20.90	
Shimoga-Anandapuram extension— Shimoga to Shimoga Town Shimoga Town to Ragihosahalli Ragihosahalli to Arasalu Arasalu to Anandapuram	:	:	:	:	:	31-1-29 12-4-30 25-5-31 30-4-34	1·34 17·62 7·66 9·59	22.29	٤.
Arasau to Anandaputam .	· Totai	opei	. MIL	EAGE.	•	20-4-34	9.03	321.90	- .
Under construction or Sanctioned for c Anandapuram to Sagara (sanction							16-22	16.22	338-12
		GRA	ND T	OTAL				-	-

Details of construction-

Permanent-way.—The permanent-way consists of flat-footed steel rails 60-lb. per yard on the Bangalore extension, 41½-lb. per yard, on the Nanjangud extension and 50-lb. per yard, on the Arsikere, Birur-Shimoga section, and Shimoga-Arasalu extensions and new and second hand 41½-lb. on the Chickjajur-Chitaldrug laid on sleepers of Mysore teak and select junglewood varieties. On the Nanjangud Chamarajanagar section the permanent-way consists of selected second hand 41½-lb. steel flat-footed B. S. S. rails laid on half-round Mysore teak sleepers

Ballast.—The line is ballasted with stone, gravel or sand. Approaches to bridges and most of the cuttings on the Arsikere extension are ballasted with stone and the banks with good gravel and moorum.

Fencing.—The Bangalore, Nanjangud and Arsikere extensions are partially fenced and the Chickjajur Chitaldrug, Birur-Shimoga, Shimoga-Arasalu extension and Nanjangud-Chamarajanagar section (except for a very short length) are unfenced.

Curves.—The sharpest curve is of 573 feet radius.

Gradients.—The ruling gradient is 1 in 70 on the Bangalore extension, 1 in 89 on the Nanjangud extension and Birur-Shimoga section, 1 in 95 on the Arsikere extension and 1 in 100 on the Chickjajur Chitaldrug and Nanjangud-Chamarajanagar sections and Shimoga-Arasalu extension.

Agreement—All the above sections are owned and worked by the Mysore Government with the exception of Nanjangud-Chamarajanagar section which is owned by the Mysore District Board. This line is being maintained and worked under the terms of an agreement, dated the 4th December 1931.

13. MYSORE RAILWAYS SYSTEM—contd.

MYSORE RAILWAYS (3' 33" gauge)—concld.

Main provisions of agreement-concld-

Land.—Provided by Government free of cost.

Government Aid.—The Government guarantee repayment of the loan of eight lakhs of rupees on the conditions set forth in Government Order No. L. 4998-5001—L. B. 129-20-8, dated 3rd/4th January, 1924, which shall be read as forming part of this contract. The said guarantee shall cease and determine on the expiry of 15 years commencing from the date of opening of the Railway line.

Terms of working and distribution of profits.—The Government shall receive 65 per cent. of the gross earnings of the Railway in addition to 5 per cent. of the same for the use of the Rolling Stock, the balance after meeting the cost of New Minor Works, if any, and Telegraph charges referred to in Clauses 9 and 10, being handed over to the Board every month after the accounts are passed by the Auditor on behalf of Government.

The above percentage may however be modified by mutual agreement after a period of 5 years from the date hereof.

Rates and Fares.—The Government shall adopt a similar classification to that in force on the Mysore Railways and shall charge generally such tolls, rates and fares through and local and terminals as are in force on the Mysore Railways, but within the approved schedule of maxima and minima rates.

Special obligations as to the conveyance of :-

(a) Mails, Troops, Police, High Govenment officials and Government stores.

(b) Government bullion and coin and persons in charge thereof.

(c) Any special service that the Government may require for any of their own departments or for the departments of the Government of India shall be performed under the same conditions as may, for the time being, be in force on State owned and worked Railways.

Powers of Government to determine Agreement.—Government shall have power to purchase the Railway at any time after giving twelve months' notice in any of the following cases:—

(a) When the Government consider it desirable that the gauge of the line should be altered and the Board be unwilling to alter it, or

(b) when it is desired to convert the line into a line of through communication; or

(c) when the Government desire to extend the line (without altering the gauge or, making the line part of a through route) and the Board unable or unwilling to supply the capital for such extension.

In the event of the line being purchased under this clause, the price payable shall be 25 times the average net earnings during the three years preceding the purchase or 155 per cent. of the Board's share of the capital expenditure on the line, whichever may be the greater.

Arbitration.—In every case in which any difference shall arise between the Government and the Board touching:—

(a) the true intent or construction of this agreement, or

(b) anything to be done suffered or permitted in pursuance of this agreement, or

(c) any of the incidents or consequences of this agreement, or

(d) any claim relating to any liability, damages, loss, costs or expenses, or

(e) any claim relating to the premises or any clause, matter or thing therein contained, the matter in difference shall be referred to and determined by a Committee of five members, two of whom shall be nominated by the Government, two by the Board and the fifth by the other four and the decision of the said Committee, shall, if unanimous, be final and conclusive between the parties. If the decision, is not unanimous, the order of Government on such matters on which there is difference of opinion among the Members of the Committee shall be final and conclusive.

Year.	Mileage open at end of each year.	Total capital outlay, including suspense to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings. 4	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1017-18	Miles. 102.95 102.95 242.70 242.70 263.60 263.60 263.60 263.60 285.89 285.89 287.23 304.85	Rs. 81,35,574 91,95,094 1,87,82,252 2,03,82,920 2,22,76,798 2,29,21,401 2,39,52,305 2,55,93,409 2,61,70,200 2,60,14,164 2,70,07,535 2,81,99,904 3,04,74,949 3,12,71,529 3,16,64,000	Rs. 65,817 3,80,815 13,40,703 23,25,450 24,87,211 27,48,704 26,30,S32 29,23,447 29,27,244 30,09,042 32,71,371 32,11,063 34,05,540 30,13,242 28,13,000	Rs. 6,582 18,599 4,75,651 6,27,003 2,99,288 2,52,740 —81,200 2,73,977 5,50,908 7,22,706 8,83,389 13,09,705 5,70,000 5,83,729 6,12,000	0.08 0.20 2.55 3.08 1.34 1.23 1.07 2.11 2.78 3.26 4.60 1.87 1.87	Rs. 52 71 106 184 181 201 192 213 212 222 220 215 228 190 173	90·00 95·12 64·52 73·04 87·90 89·71 103·09 90·63 81·18 75·98 73·00 56·21 83·26 80·63 78·24 88·81
1932-33	312·33 312·33 321·90	3,20,24,000 3,26,25,000 3,31,98,000 3,38,66,000 3,48,34,000	27,98,000 28,71,000 28,36,000 29,14,000 29,96,000	3,13,000 3,38,000 2,63,000 4,21,000 4,95,000	0.98 1.04 0.79 1.24 1.42	172 176 169 173 178	88·23 90·73 85·55 83·48

13. MYSORE RAILWAYS SYSTEM—contd.

(b) BANGALORE-CHIK BALLAPUR LIGHT RAILWAY (2'6" gauge).

This railway is an enterprise by an Indian Company floated for the purpose under a guarantee from the Mysore Darbar of 4 per cent. per annum on the subscribed capital. Its construction was sanctioned by the Secretary of State for India in his Despatch No. 75-Railway, dated the 10th September 1909. As the Company was unable to raise the entire capital, the Darbar undertook to advance the balance of capital as joint owners of the railway and gave the Company the option of paying back the amount later on.

Running power-

Home line over foreign line-

Miles.
Yesvantpur to Yelahanka, Madras and Southern Mahratta (3' 3\sqrt{g}" gauge) railway, with the help of a 3rd rail . . 6.85

Progress in opening-

, Sections of railway.		Date of opening.	Miles.	Total.	Remares.
1		2	3	4	Ε
Bangalore City to Yesvantpur Yesvantpur to Yelahanka Yelahanka to Devanhalli		7-1-18 1-2-17 6-4-15 1-8-15	3·33 *6·85 14·70 13·75		*This is on 4 mixed (3' 33" and 2' 0") gauge.
Total open mileage	•		••	38.63	

Details of construction-

Permanent-way.—The permanent-way consists of second-hand 41½-lb. flat-footed steel rails, purchased from the Madras and Southern Mahratta Railway Company, laid on steel sleepers. Teak sleepers have been used in station yards.

Ballast.—The line is for the present packed upon gravel ballast.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 1,146 feet radius.

Gradients.—The steepest gradient is 1 in 100.

Agreement-

Dated the 4th August 1919, between the Government of His Highness the Maharaja of Mysore and the Bangalore-Chik Ballapur Light Railway Company, Limited, as to the construction, maintenance and working of the Bangalore-Chik Ballapur Light Railway.

Main provisions of agreement-

[Note. Under this head, the expression "Government" means, the Government of His Highness the Maharaja of Mysore except where otherwise stated.]

- (i) Land.-Land provided by Government free of cost.
- (ii) Government aid.—The Government have supplied the capital, which the Company was unable to raise, and guarantee interest at the rate of 4 per cent. per annum on the capital contributed by the Company. The Company have the option of purchasing, within 10 years from the date of opening the line to public traffic, the interest of the Government in the railway until such time as the Company are unable to acquire the interest of the Government in the railway. The Government have entire control over the construction, maintenance and working of the railway.
- (iii) Terms of working.—The line is worked by the Government on behalf of the Company at actual cost, free of any charge for Government supervision.
- (iv) Distribution of profits.—After the payment of working expenses and interest at 4 per cent. per annum on the capital contributed by the Company and the Government from the gross earnings of the line the balance, if any is divided as follows:—

13. MYSORE RAILWAYS SYSTEM—contd.

(b) BANGALORE-CHIK BALLAPUR LIGHT RAILWAY (2' 6" gauge)—concld.

Half to the Government as the guarantors of interest on capital, and the remainder chared by the Company and the Government in the ratio of the capital contributed.

(v) Rates and fares .--

(vi) Special obligations as to the conveyance of-

(a) Mails, troops, police, high Government officials and Government stores.

Not specified.

(b) Government bullion and coin, and the persons in charge thereof.

(vii) Power of the Government to determine agreement.—The Government have power to purchase the interest of the Company in the railway 30 years after its opening to public traffic, or at subsequent intervals of 10 years, by paying them 25 times the average yearly net earnings (excluding payment on account of guarantee) corresponding to their capital during the last preceding 3 years, subject to a maximum of 120 per cent. and a minimum of 100 per cent. of their share of the capital expenditure.

They also have power to purchase the Company's interest when it is considered desirable that the gauge of the line should be altered, or to convert it into a line of through communication, or to extend it, and the Company is unable to supply necessary capital for such extension. In this case the price payable shall be 25 times the average net earnings referred to above or 115 per cent. of the Company's share of the capital expenditure, whichever may be the greater.

(viii) Power of the Company to surrender agreement .- Nil.

(ix) Term of agreement [if not determined under (vii)].—Not specified.

Statistics of working-

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	
	2	3	4	5	6	7	8
	Miles.	Rs.	Rs.	Rs.		Rs.	ì
1914-15	14.72	7,80,104		ormation not			
1915-16	28-47	10,18,730	52,503	18,397	1.81	35	64.96
1916-17	35-18	9,11,740	71,660	16,826	1.79	39	77·21 68·34
1917-18	38.63	11,57,634	1,04,642	33,132	2.86	52 70	82·77
1918-19	38.63	11,53,681	1,40,424	24,193	2·10 3·18	73	74.05
1919-20	38.63	11,59,794	1,47,303	36,903 41,415	3.34	77	73.16
1920-21	38.63	12,40,938 12,80,703	1,54,314 1,78,777	22,828	1.78	89	87.23
1921-22	38·63	14,64,613	1,72,335	15,584	1.06	85	90.95
1922-23	38.63	14,76,115	1,69,049	17,816	1.21	84	89.46
1923-24 · 1924-25 ·	38.63	14,83,840	1,89,513	37,906	2.55	94	80.00
1924-25 · · · · · · · · · · · · · · · · · · ·	38.63	14,88,760	1,87,200	22,279	1.20	93	88.10
1926-27	38.63	15,21,051	1,86,921	44,594	2.93	93	76·14 71·63
1927-28	38-63	15,12,053	1,96,202	55,671	3.68	98 94	78.06
1928-29	38.63	15,28,597	1,88,409	41,342	2·70 2·85	85 85	74.11
1929-30	38.63	15,44,770	1,70,015	44,000	2·85 -0·44	59	105.81
1930-31	38.63	15,59,600	1,17,652	6,838 28,000	1.75	52	73.80
1931-32	38.63	15,80,000	1,06,000 1,16,000	26,000	1.69	58	77.10
1932-33	38.63	15,78,000 16,11,000	1,17,000	28,000	1.68	58	76.73
1933-34	38·63	16, 13,000	1,11,000	11,000	0.66	55	90.43
1934-35	38.03	16,14,000	1,27,000	21,000	1.29	63	83.46
1935-36 · · · · · · · · · · · · · · · · · · ·	38.63	16,20,000	1,24,000	21,000	1.32	62	82.89
1990-91 .	00 00				<u> </u>		<u> </u>

(c) KOLAR DISTRICT RAILWAY (2' 6" gauge).

The first section, from Bowringpet to Kolar, formerly known as the Bowringpet-Kolar railway, was constructed by the Mysore Durbar under sanction conveyed in Government of India, Foreign Department, letter No. 2161-I.-B., dated the 15th October 1912. It was financed entirely by the District Board of Kolar from the proceeds of a debenture loan. Later on as the District Board were unable to raise the entire capital for the whole line, from Bowringpet to Chik Ballapur, the cost was borne in equal proportions both by the Durbar and the District Board.

13. MYSORE RAILWAYS SYSTEM-contd.

(c) KOLAR DISTRICT RAILWAY (2' 6" gauge)—contd.

Progress in opening-

Sections of railway.									Date of opening.	Miles.	Total.		
				1							2	3	4
Bowringpet to Kolar							•				15-12-13	10.51	
Kolar to Chintamani	•									٠.	6-3-16	29.79	
Chintamani to Chik Ball	apur							•			8-11-16	23.27	
							T	DTAL	•	•	• ••		63-57

Details of construction-

- Permanent-way.—The permanent-way consists of 41\frac{1}{4}-lb. second-hand rails for 41 miles, and 41\frac{1}{2}-lb. new rails, from the Tata Iron and Steel Company, for the remainder. The rails are laid on steel sleepers for 37 miles, and on wooden sleepers for 27 miles. The wooden sleepers are mostly teak, a small percentage being jalare and jambe.
- Ballast.—The line between Bowringpet and Kolar is ballasted with sand and between Kolar and Chintamani boxed with good gravelly soil. Between Chintamani and Chik Ballapur the ballast consists of moorum, except at bridge approaches where broken stone is used.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 716 feet radius.

Gradients.—The ruling gradient is 1 in 100.

Agreement-

Dated the 1st December 1920, between the Government of His Highness the Maharaja of Mysore and the District Board of Kolar, as to the construction, maintenance and working of the Kolar District railway.

Main provisions of agreemen.-

- Note.—Under the nead, the expression "Government" means the Government of His Highness the Maharaja of Mysore except where otherwise stated.
 - (i) Land.—Land provided by Government free of cost, including land required for quarrying, ballast for brick-fields and similar purposes.
 - (11) Government aid.—The Government have guaranteed the payment of interest at 4 per cent. per annum on the loan raised by the District Board and used for the Capital expenditure on the railway.
 - The Government have given the District Board the option of purchasing within 25 years from the date of opening of the Kolar-Chik Ballapur section to traffic, the interest of the Government in the railway. So long as the line remains the joint property of the Government and the District Board the entire control over the construction, maintenance and working of it shall be with the former.
 - (iii) Terms of Working.—The line is worked by the Government on behalf of the District Board at actual cost, free of any charge for Government supervision. Any loss on working shall be borne by Government.
- (iv) Distribution of profit.—The net earnings of the Railway should be distributed between the partners, viz., Government and the District Boards in proportion to the capital contributed by each (whatever be the source from which such capital has been obtained by either partner).
- The District Board is entitled to be reimbursed of the deficit, if any, to make up 4 per cent. in respect of that part of the capital which is contributed by it out of Debenture loan collections.
- Note.—As per Government Orders Nos. L. 8697-760/L. B. 114-21-59, dated 7th June 1927 and L. 1268-71/L. B. 114-21-61, dated 8/9th August 1928, the gross earnings of the Railway, after payment of Working Expenses, are to be distributed between the Government and the District Board in proportion to the capital contributed by each (whatever be the source from which such capital has been obtained by either partner); and the District Board are to be reimbursed for the deficit, if any, to make up 4 per cent. in respect of that part of the capital contributed by the Board out of Debenture Loan collections.
 - (v) Rates and fares.—
 - (vi) Special obligations as to the conveyance of—

 (a) Mails, troops, police, high Government Officials, and Government Stores.
 (b) Government bullion and coin and the persons in charge thereof.
 - (vii) Power of the Government to determine agreement.—The Government have power to purchase the interest of the District Board in the railway 30 years after its opening to public traffic or at

13. MYSORE RAILWAYS SYSTEM-contd.

(c) KOLAR DISTRICT RAILWAY (2' 6" gauge)—concld.

Main provisions of agreement-concld.

subsequent intervals of 10 years by paying them 25 times the average yearly net earnings (excluding payment on account of guarantee) corresponding to their capital during the last preceding three years, subject to a maximum of 120 per cent. and a minimum of 100 per cent. of their share of the capital expenditure.

They also have power to purchase the Board's interest when it is considered desirable that the gauge of the line should be altered or to convert it into a line of through communication or to extend it, and the District Board is unable to supply necessary capital for such extension. In this case the price payable shall be 25 times the average net earnings referred to above or 115 per cent. of the District Board's share of the capital expenditure, whichever may be the greater.

- (viii) Power of the District Board to surrender agreement.—Nil.
- (ix) Term of agreement [if not determined under (vii)].—Not specified.

Year.	•		Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross carnings.	Net earnings.	Percentage of net earn- ings on total capital out- lay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
ı		Ì	2	3	4	б	6	7	8
			Miles.	Rs.	Rs.	Rs.		Rs.	
1913-14			10.92	2,95,577	7,598	—253	••	43	103-33
1914-15		:	10.92	6,42,569	36,093	4,815	0.75	64	86.66
1915-16	•		40 · 43	14,06,864	47,918	12,305	0.87	23	74.32
1916-17			63 • 57	17,09,216	1,05,093	14,942	0.88	32	85.78
1917-18			63 · 57	18,74,516	1,56,758	31,722	1.69	47	79.76
1918-19			63 - 57	19,32,057	1,61,558	_17,597		49	110.89
1919-20			63 • 57	19,56,775	2,00,019	46,644	2.38	61	76.68
1920-21			63.57	20,90,518	2,02,261	55,849	2.67	61	72.30
1921-22			63.57	21,82,928	2,05,773	22,677	1.04	62	88.08
1922-23			63 - 57	25,24,076	2,33,569	22,746	0.00	70	90.26
1923-24			63.57	25,54,577	2,50,460	47,278	1.85	78	81.20
1924-25			63.57	24,84,958	2,48,93	42 853	1.72	75	82.79
1925-26			63.57	24,93,333	2,58,28	35,731	1.43	78	86.24
1926-27			63.57	25,51.636	2,63,64	60,68	2 2.38	79	76-98
1927-28			63.57	25,67,941	3,07,69	90,69	3.23	93	70.52
1928.29			63.5	26,02,693	3,07,36	3 74,02	2.84	93	75.91
1929-30			63.5	26,23,888	2,75,78	8 72,00	2.74	83	73.97
1930-31			63.5	26,51,090	2,24,62	2 —11,96	9 -0.45	68	105-33
1931-32			63.5	26,87,000	1,76,00	0 47,00	0 1.74	5	73.43
1932-33			63.5	26,90,000	1,90,00	0 45,00	0 1.66	5'	76•39
1933-34			63.5	7 27,56,000	1,82,00	43,00	0 1.55	54	76.50
1934-35			. 63.5	7 27,57,000	1,83,00	00,91	0.00	5!	5 91.01
1935-36			. 63.5	7 27,60,000	1,93,0	33,00	0 1.20	5	82.90
1936-37			. 63.5	7 27,55,000	1,66,0	27,00	0.08	5	0 83.73

13. MYSORE RAILWAYS SYSTEM—concld.

(d) TARIKERE-NARASIMHARAJAPURA LIGHT RAILWAY (2' 0" gauge)—

The construction of this tramway in Mysore by the Darbar, under the provisions of the Mysore Tramways Regulation No. II of 1906, was sanctioned by the Government of India in the Foreign Department letter No. 3225-I.B., dated the 25th September 1913.

Progress in opening-

Sections of railway.			Date of opening.	Miles.	Total.
ı			2	3	4
Tarikere, on the Birur-Shimoga railway, to Lakvalli Lakvalli to Narasimharajapura		•	22-5-15 15-5-17	11·88 14·72	
	Тотаг	•	••	••	26•60

Details of construction-

Permanent-way.—The permanent-way consists of 24-lb. flat-footed rails laid on wooden sleepers.

Ballast.—The line is packed with gravel ballast.
Fencing.—The line is unfenced throughout.
Curves.—The radius of the sharpest curve is 191 feet.

Gradients.—The ruling gradient is 1 in 50.

Nil.—The line is owned and worked by the Mysore Government.

Statistics	OI MOI	King—						
Year.		Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1		2	3	4	5	6	7	8
		Miles	Rs.	Rs.	Rs.		Rs.	
1914-15		12.00	2,50,673	Informa i	on not avai	i able.		•
1915-16		11.75	2,97,416	7,625	-2,109		12	127.66
1916-17	•	11.88	3,47,437	*925	-3,687		3	498-59
1917-18	•	26.60	5,03,311	17,798	9,572		14	153.78
1918-19		26.60	5,76,600	27,734	12,445		20	144.87
1919-20		26.60	6,35,416	27,630	3,890	0.61	20	85.92
1920-21		26.60	6,48,880	34,756	8,009	1.23	25	76.96
1921-22		26.60	6,76,939	37,634	4,230	0.62	27	88.77
1922-23	- [26.60	7,09,451	45,000	6,532	0.92	32	85.42
1023-24		26-60	7,20,870	36,000	5,538	0.77	26	84.62
1924-25		26-60	7,90,934	45,928	1,877	0.24	33	95.91
1925-26		26.60	. 8,02,569	62,000	12,400	1.55	45	80.00
1926-27		26.00	8,10,154	47,270	-3,705		34	107-84
1927-28		26.60	8,18,598	53,678	22,359	2.73	39	58•35
1928-29		26.60	9,06,848	40,731	18,089	1.99	30	55•59
1929-30	•	26.60	9,12,881	46,943	12,425	· 1•36	34	52.23
1930-31		26.60	9,23,122	42,285	17,457	. 1.89	30	58.72
1931-32	.	26.60	9,33,604	37,665	12,861	1.38	27	65•85
1932-33		26.60	9,37,263	45,000	13,000	1.39	32	69.98
1933-34		26.60	†9,55,406	46,000	16,000	†1.67	33	65.44
1934-35		26-60	9,59,000	39,000	8,000	0.83	28	79•49
1935-36	.	26.60	9,81,000	41,000	1,000	0.10	29	95.12
1936-37		26.60	9,83,000	38,000	7,000	0.71	27	81.55
* The c	decrore	se is due to the cl	osing of the line to trat	fic for a por	tion of the y	70ar.	Revised figure	

e to tradic for a portion of the year.

13. MYSORE RAILWAY SYSTEM-concld.

(e) *TADASA-HEBBA TRAMWAY.

Year.	Mileage open at end of each year.	Total capita outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per weok.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8
	Miles.	Rs.	Rs.	Rs.		Rs.	
1936–37	9∙60	3,31,000	8,000	2,000	0.46	16	79-98

^{*}This Tramway is not open for passenger or public traffic of any kind, but meant purely for goods (forest) traffic. Note. Other particulars in respect of this Tramway are being collected.

14. SHAHDARA (DELHI)-SAHARANPUR LIGHT RAILWAY (2'6' gauge).

Managing Agents.—Messrs. Martin & Co., Calcutta.

Date of registration of the Company.—28th November 1905.

Progress in opening-

		Sect	ions o	f rail	way.			Date of opening.	Miles.	Total.
					1			 2	3	4
Shahdara to Shamle Shamli to Saharanpur	•					•		7-5-07 15-10-07	92.50	
							Total .	•••	••	92.50

Details of construction-

Permanent-way.—The permanent-way consists of 35-lb. flat-footed steel rails laid on sal sleepers.

Ballast.—The line is ballasted with stone and broken brick.

Fencing.—The line is partially fenced.

Curves.—The sharpest curve is of 1,910 feet radius.

Gradients.—The ruling gradient is 1 in 1,000, with some short lengths of 1 in 333.

Local Government order and agreement-

The Shahdara-Saharanpur Tramway Company order, published under the Government of the United Provinces of Agra and Oudh, Public Works Department, Railway Branch, Notification No. 339-187-R., dated the 18th April 1904;

Agreement, dated the 11th October 1905, between the Government of the United Provinces of Agra and Oudh and Messrs. Martin and Company of Calcutta (called "the Promoters"), for and on behalf of the Shahdara (Delhi)-Saharanpur Light Railway Company, published under the Government of the United Provinces of Agra and Oudh, Public Works Department, Railway Branch, Notification No. 1363-R.-187, dated the 22nd November 1905;

as to the construction, maintenance and working of the line from Shahdara to Saharanpur.

Main provisions of Local Government order and agreement-

(i) Land.—

(ii) Government aid .--

expenditure.

The Local Government provide free of charge for the purposes of the railway sufficient land for a single 5' 6" gauge line, together with land for all conveniences and works approved under clause 8 of the agreement; in addition to this the Company are authorised to use for the purpose of the railway, but not for the purpose of any building or erection connected therewith, portions not exceeding six feet in width of the local roads passing between Shahdara and Saharanpur.

- (iii) Distribution of profits.—Surplus profits in any year in excess of 4 per cent. upon the paid-up capital of the Company shall be divided equally between the Government and the Company; payments on account but subject to adjustment being made at close of first half-year.
- (iv) Rates and fares.—Control over rates and fares, vests in the local Government, subject to directions issued by the Government of India. Directions issued have taken the form of prescribing maximum and minimum rates and fares.
- (v) Special obligations as to the conveyance of-

(a) Mails, troops, police, high Government officials and Government stores.

(b) Government bullion and coin, and the persons in charge thereof.

(vi) Power of the Government to determine agreement.—Upon the expiration of 21 years after the date of opening, or 23 years from the date of the Local Government order sanctioning the construction of the line, whichever is earlier, or at the end of every seven years thereafter, the Local Government have, by giving 12 months' previous notice, the right of terminating the agreement by paying to the Company the value calculated at 25 years' purchase of the average annual profits of the Company for the preceding three years, subject to a minimum of the capital expended and a maximum of 25 per cent. in excess of that sum. In the event of its being determined to construct a railway on a different gauge in place of the tramway, and if the Government and the Company fail to agree that the alteration shall be made by the Company, then and in such case, the Government have the right to acquire the tramway at any time on giving

12 months' notice in writing and paying to the Company a sum 25 per cent. in excess of its capital

- (vii) Power of the Company to surrender agreement.-Nil.
- (viii) Term of agreement [if not determined under (vi)].—None specified.

14. SHAHDARA (DELH1)-SAHARANPUR LIGHT RAILWAY (2' 6" gauge)—concld.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix to the Report for 1913-14).—

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings,	Percentage of net carnings on total capital outlay given in column (3).	Moiety of surplus profit paid to United Provences Government.	Total Income.	Percentage of total Income on total capital outlay as given in colum: (3).	1 1	Proportion of expenses to earnings.	Amount credited to Renewal Reserve Account,
1	2	3	4	5	6	7	8	9	10	11	12
	Miles.	Rs.	Rs.	Rs.		Rs.	Rs.		Ks.		Rs.
1913-14 .	92.50	43,42,421	6,17,500	3,48,514	8.02	91,286	2,57,228	5.92	128	43.53	
1914-15 .	92.50	43,89,762	6,48,190	3,57,708	8 · 14	93,128	2,64,580	6.02	134	44.76	
1915-16 .	92.50	44,13,488	5,49,809	2,80,278	6.35	53,230	2,27,046	5.14	114	49.08	
1916-17 .	92-50	44,11,392	6,68,824	3,92,996	8.90	1,10,678	2,82,318	6.39	139	41.23	} }
1917-18 .	92.50	44,63,101	7,15,494	3,70,892	8.31	1,03,083	2,67,809	6.00	148	48 • 17	l j
1918-19 .	92.50	45,14,868	7,94,163	3,80,011	8.41	1,04,686	2,75,325	6.09	165	52 · 15	
1919-20 .	92.50	45,71,187	7,57,370	3,21,156	7.02	72,385	2,48,771	5.44	157	57·5 9	
1920-21	92.50	45,50,806	8,39,967	3,36,646	7.40	78,323	2,58,323	5.67	176	59 • 92	
1921-22 .	92.50	47,14,872	8,65,085	3,17,176	6.73	68,587	2,48,589	5.27	179	63-32	
1922-23 .	92.50	47,28,307	10,69,978	5,68,586	12.02	1,94,292	3,74,294	7.91	222	46.86	
1923-24 .	92-50	47,06,052	10,27,917	5,93,152	12.60	2,06,576	3,86,576	8.21	213	42.28	1
1924-25 .	92.50	47,62,498	11,64,238	6,79,859	14.27	2,49,745	4,30,114	9.03	242	41.60	Ì
1925-26 .	92.50	49,93,212	10,21,943	5,00,917	10.03	1,57,857	3,43,060	6.87	212	50.98	
1926-27 .	92.50	49,84,81]	9,60,590	4,61,794	9.26	1,19,033	3,42,763	6.87	199	51.92	}
1927-28 .	92.50	50,01,304	10,33,153	5,72,225	11.44	1,75,568	3,95,657	7.91	214	44.60	Ì
1928-29 .	92.50	50,00,461	10,53,171	6,05,794	12-11	1,77,632	4,28,162	8.56	219	42.47	
1929-30 .	92.50	50,02,739	10,58,804	5,98,664	11.97	1,72,954	4,25,710	8.51	220	43.45	
1930-31.	92.50	50,21,622	8,96,412	4,69,300	9.30	1,08,073	3,61,227	7.19	186	47.64	
1931-32 .	92.50	49,95,301	8,31,309	4,32,057	8.65	90,081	3,41,976	6.85	173	48.03	
1932-33 .	92.50	49,94,304	8,85,806	4,63,349	9.28	1,05,967	3,57,382	7.15	184	47.69	42,500
1933-34 .	92.50	50,37,005	10,16,421	5,76,302	11.40	1,53,581	4,22,721	8.39	211	43.18	85,000
1934-35 .	92.50	50,67,084	8,32,327	3,95,649	7.80	54,832	3,40,817	6.72	173	52.40	85,000
1935-36 .	92-50	51,01,109	9,06,482	4,43,156	8-68	1,30,358	3,12,798	6.13	188	51 · 10	95,000
1936-37 .	92.50	51,13,325	9,66,099	4,81,014	9.40	1,12,232	3,68,782	7.21	201	50.20	85,000

CLASS III RAILWAYS.

With gross earnings of Rs. 10 lakhs and under a year.

1. ADEN RAILWAY (3' 3g" gauge) -

The Railway is closed for public traffic from 1st August 1929.

Year.	Milenge open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (1) lines open and (i1) lines partly or wholly under construction.	Gross	Net .earn- ings.	Percentage of net earn- ings on total capital outlay given in column (3).	Interest.	Gain or loss to the State pertaining to each year.	Earn- ings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8	9	10
	Miles.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	
1915-16 .	7.00	2,88,292	21,167	6,096	••	5,005	11,101	232	128.80
1916-17 .	7.00	6,21,816	1,46,456	32,673	5.25	15,000	17,673	402	77.09
917-18 .	7.00	6,67,368	1,42,933	28,202	••	22,427	50,629	393	119.73
918-19 .	22.50	3,88,701*	1,99,673	10,370	2.66	18,385	8,015	423	94.81
919-20	28.75	6,25,609	3,60,123	32,920	5.26	14,386	18,534	289	90.86
920-21	28.75	14,00,084†	2,71,600	-76,121		30,342	1,06,463	182	128.02
921-22 .	28.75	15,45,249†	2,49,681	 90,698	414	50,041	1,40,739	167	136.32
922-23 .	28.75	16,54,809†	2,25,397	-69,328		58,409	-1,27,737	151	130.75
923-24 .	28.75	17,40,493†	2,01,573	-64,991		68,043	1,33,034	135	132.24
924-25 .	28.75	17,26,944‡	1,82,513	15,028		69,374	—81,402	122	108 · 23
925-26 .	28.75	17,28,373†	1,39,094	-61,206	*10	70,285	-1,31,491	93	144.00
926-27 .	28.75	17,23,898†	1,41,799	63,491	3.68	68,225	-4,734	95	55-18
927-28 .	28.75	16,28,246†	1,31,579	-1,27,051		65,515	-1,92,566	88	196-56
928-29 .	28.75	16,16,265†	1,60,272	12,880	-0.80	64,946	—77, 826	107	108.04
929-30	(a)	4,56,262	47,199	9,27,546	-203.3	37,039	9,64,585	••	2,065•18
930-31 .	(a)	4,52,600	2,778	4,021	-0.89	11,135	—15,156	••	244.74
931-32	(a)	209	••	-4,41,280		1,661	-4,39,619	••	
032-33	(a)		••	+91,758		-13,764	1,05,522	••	
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^{*} The reduction, as compared with the previous year, is due to heavy increase in the credit balance under the suspense head "Purchase," value of certain materials obtained during the year having been paid in the following year, viz., 1919-20.
† Includes expenditure booked in the Military Department.
† The reduction as compared with the previous year is chiefly due to credits to final heads.
(a) Due to the closing of the railway from 1st August 1929.

2. AHMADPUR-KATWA RAILWAY (2' 6' gauge).

Managing Agents.—Messrs. McLeod & Co., Calcutta.

Date of registration of the Company.—3rd November 1915.

Sanction to the construction of this line by the Ahmadpur-Katwa Railway Company was conveyed in Railway Board's Notification No. 314, dated the 16th November 1914.

Progress in opening-

	-	~va	S	ection	s of r	iilway	7 .					Date of opening.	Mīles. 3	Totel.
Ahmadpur to Pachandi	•		•	•	•		•	•			•	30-5-17	24.62	
Pachandi to Katwa .					•	•						29-9-17	7.64	
					_				Tota	ıl	•	••	••	32•26

Details of construction-

Permanent-way.—The permanent-way consists of new 35-lb. flat-footed and 2nd-hand 50-lb. rails laid on sâl sleepers.

Ballast.—The line is ballasted with moorum, except in station yards and on open top bridge approaches where stone or brick ballast is used.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 573 feet radius.

Gradients.—The ruling gradient is 1 in 200.

Contract-

Dated the 8th May 1922, between the Secretary of State and the Ahmadpur-Katwa Railway Company, Limited, as to the construction, maintenance and working of the line.

Main provisions of contract—

The same as noted under Burdwan-Katwa Railway, except that the earliest date when the Secretary of State may determine the contract, by giving 12 months' previous 'Notice of purchase', is 31st March 1948.

tatistics of w	orking—									
Year.	Mileage open at end of each year.	Total capital outlay, in- cluding suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in	Guaranteed interest re- coverable from Govern- ment.	Total income.	Percentage of total income on total capital outlay given in column (3).	Earn- ings per mile per week.	Proportion of expenses to earnings.
1	2	construction.	4	5	column (3) 6	7	8	9	10	11
1917-18	Miles. 32·26	Rs. 19,50,145	Rs. 54,497	Rs. -780	••	Rs. 30,170	Rs. 29,390	1.51	R ₉ . 43	101•45
1918-19	32.26	19,65,836	94,197	23,602		83,942	60,340	3.07	56	125.06
1919-20	32.26	_ 19,74,361	1,22,315	46,589	2.36	44,903	91,492	4.63	73	61 • 91
1920-21 .	32.26	19,76,164	1,35,114	14,286	0.72	58,227	72,513	3.67	81	89 • 43
1921-22	32.26	19,82,474	1,24.624	-11,749		85,971	74,222	5.74	74	109-42
1922-23 .	32:26	20,34,873	1,30,486	—14,769		90,626	75,857	3.73	78	11.32
1923-24 .	32.26	20,11,641	1,27,506	17,218	0:85	58,230	75,448	3.75	76	86-49
1924-25 .	32.26	19,93,377	1,35,687	20,482	1.03	54,925	75,407	3.78	81	84.90
1925-26 .	32.26	19,89,418	1,66,325	46,001	2.31	27,476	73,477	3.69	99	72.34
1926-27 .	32.26	20,02,891	1,52,890	26,776	1.34	46,331	73,107	3.65	91	82.49
1927-28 .	32.26	20,28,957	1,38,573	10,435	0.51	64,336	74,771	3.69	83	92-47
1928-29 .	32.26	20,36,005	1,20,098	-23,046	-1.13	99,848	76,802	3.77	72	119-19
1929-30 .	32.26	20,51,587	1,34,194	3,909	0.19	72,983	76,892	3.75	80	97.09
1930-31 .	32.26	20,76,727	1,16,476	-20,046	-0.96	97,935	77,889	3.75	69	117.21
1931-32 .	32.26	20,76,704	1,10,258	13,324	0.64	66,146	79,470	3.83	66	87.92
1932-33 .	32.26	20,73,299	1,15,325	22,471	1.08	55,062	77,533	3.74	69	80.52
1933-34 .	32.26	20,73,277	1,11,292	13,232	0.64	63,842	77,074	3.72	66	88.11
1934-35 .	32.26	20,72,648	1,06,613	15,817	0.76	62,319	78,136	3.77	64	85.16
1935-36 .	32.26	20,72,648	87,757	3,292	0.16	74,433	77,725	3.75	52	96.25
1936-37	32.26	20,72,387	84,769	-11,577	-0.53	89,578	78,001	3.76	51	113.66
	<u> </u>	1	1	'	<u> </u>	1	<u></u>	· · · · · · · · · · · · · · · · · · ·	<u>'</u>	1 2×2

3. ARRAH-SASARAM LIGHT RAILWAY (2' 6" gauge).

Managing Agents.—Messrs. Martin & Co., Calcutta.

Date of registration of the Company.—19th October 1909.

Progress in opening-

- Secti	ong o	f raily	ray.						Date of opening.	Miles.	Total,	Remares.
		1							2	3	4	5
Arrah to Sasaram		•				•		•	6-3-11	60.50		
Sasaram to Tarachandi Hill		•	•	•	•	•	•	•	12-11-14	*4.66		* For goods traffic only.
,				To	AL		•		••	••	65.16	

Details of construction-

Permanent-way.—The permanent-way consists of 30-fb. flat-footed steel rails on sal sleepers.

Ballast.—The line is ballasted with broken stone and moorum.

Fencing.—The line is unfenced except at certain station yards.

Curves.—The sharpest curve is of 573 feet radius between Arrah and Sasaram and 382 feet between Sasaram and Tarachandi Hill.

Gradients.—The ruling gradient is 1 in 250 between Arrah and Sasaram, and 1 in 100 between Sasaram and Tarachandi Hill.

Local Government orders and agreements-

The Arrah-Sasaram Tramway Company order published under the Bengal Government, Railway Department, Notification No. 39-R., dated the 12th October 1909, authorizing the construction of a line from Arrah to Sasaram in the district of Shahabad.

Agreement, dated the 15th October 1909, between the District Board of Shahabad and Messrs. Martin and Company of Calcutta (called "the Promoters"), by and on behalf of the Arrah-Sasaram Light Railway Company, as to the grant of a concession to the Company of the right to construct and work the line.

Agreement, dated the 30th October 1912 (supplemental to the agreement of 15th October 1909), between the District Board of Shahabad and the Arrah-Sasaram Light Railway Company;

The Arrah-Sasaram Tarachandi Hill extension order published under the Bihar and Orissa Government, Railway Department, Notification No. 4760-R., dated the 8th September 1913; as to the construction, maintenance and working of the extension from Sasaram to Tarachandi Hill as a part of the Arrah-Sasaram Light railway.

Main provisions of Local Government orders and agreements-

- (i) Land.—Provided at the cost of the Company, except one side of the district road the free use of which is authorised.
- (ii) Aid by the Local authority.—The District Board of Shahabad recommend and apply to the Local Government to exempt the Company from the tax on account of road cess, or to exact only a nominal tax, for a period of 21 years from the date when the line is opened for traffic, with power of renewal. The Board also guarantee to supplement the net earnings of the Company by such annual subsidy as may be necessary to allow of it paying a dividend of 4 per cent. per annum on their share capital, provided that the total liability of the Board on this account in any one year shall not exceed Rs. 88,000 or the sum of 4 per cent. on the Company's share capital whichever is less.
- (iii) Distribution of profits.—Surplus profits in excess of 4 per cent., after setting aside such funds as the Directors may decide, on the capital for the time being of the Company, are divisible equally between the District Board of Shahabad and the Company.
- (iv) Rates and fares.—Certain maximum rates of fares for passengers and the adoption of the General Classification of goods with separate maximum and minimum rates for goods of the different classes have been prescribed. Full control over charges of all kinds is reserved to the Local Government.
- (v) Special obligations as to the conveyance of—
 - (a) Mails. postal officers and servants on duty.—To be conveyed at the rates and on the conditions in force from time to time on State railways.
 - (b) Troops, police, high Government officials and Government stores.— $\begin{cases} i \\ Nil \end{cases}$ (c) Government bullion and coin, and the persons in charge thereof.—
- (vi) Power of the Local authority to determine agreement.—Upon the expiration of 21 years from the date of the Local Government order authorizing the construction of the line, or at the end of every 7

3. ARRAH-SASARAM LIGHT RAILWAY (2' 6" gauge)—concld.

Mein provisions of Local Government orders and agreements-concld.

years thereafter, the District Board have, by giving six months' previous notice, the right of purchasing the line by paying to the Company 25 times the average yearly net earnings of the 3 years preceding the purchase, subject to a maximum of 120 and a minimum of 100 per cent. of the capital cost.

(vii) Power of the Company to surrender agreement.—Nil.

(viii) Term of agreement [if not determined under (vi)].-Not specified.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 1 to the Railway Administration Report for 1913-14).—

Уеаг.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earninga.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Amount credited to Rene- wal Re- serve Account.	Subsidy from (+), or share of surplus profits to (—), the District Board.	Total income (column 5 minus column , c plus or minus column 8).	Percentage of total income on total capital outlay given in column (3).	Earn- ings per mile per week.	Proportion of expenses to earnings.
1 _	2	3	4	5	6	7	8	9	10	11	12
	Miles.	Rs.	Rs.	Rs.			Rs.	Rs.		Rs.	
1913-14 .	60.50	22,31,449	1,94,799	71,403	3.20		+17,932	89,335	4.00	62	63.34
1914-15 .	65-26	22,75,170	2,12,951	88,320	3.88		+253	88,573	3.89	63	58.52
1915-16 .	65-16	22,88,079	1,96,050	79,328	3.46		+13,256	92,584	4.04	58	59.53
1916-17 .	65-16	22,80,626	2,26,342	1,00,239	4.39	}		1,00,239	4.39	67	55.71
1917-18 .	65.18	22,67,557	2,53,527	1,36,342	6.01	25,000	7,394	1,03,948	4.58	75	46.22
1918-19 .	65•16	22,58,480	2,47,766	1,16,406	5.15	8,000	-5,196	1,03,210	4.57	73	53.01
1919-20 .	65•16	22,68,185	2,79,390	1,14,181	5.03	5,000	5,873	1,03,308	4.55	82	59.13
1920-21 .	65·16	22,65,007	2,89,000	1,09,564	4.83		6,326	1,03,238	4.55	85	62.08
1921-22 .	65-16	23,18,908	3,02,312	1,04,205	4.49	!	••	1,04,205	4.49	89	65.53
1922-23 .	65•16	23,38,807	3,70,882	1,59,786	6.83	10,000	—23,73 5	1,26,051	5.39	109	56.91
1923-24 .	65-16	23,44,041	3,47,582	1,32,904	5.67	10,000	—11,596	1,11,308	4.75	102	61.76
1924-25 .	65-16	23,41,015	3,61,821	1,27,145	5-43	20,000	-8,460	98,685	4.22	106	64.86
1925-26 .	65-16	23,46,452	3,72,101	1,52,631	6.50	20,000	11,509	1,21,122	5.16	109	58.98
1920.27 .	65.16	23,41,561	4,13,505	2,05,261	8.76	40,000	20,333	1,44,928	6.19	122	50.36
1927-28 .	65•16	23,50,610	4,11,128	1,54,753	6.51	20,000	19,230	1,15,523	4.91	121	62.33
1928-29 .	65.16	23,73,208	3,77,124	1,42,078	5.98	10,000	11,467	1,20,611	5.08	111	62.32
1929-30 .	65·16	25,24,961	4,32,658	1,65,915	6.57	40,000	20,003	1,05,912	5.78	128	61.66
1930-31 .	65 • 16	25,16,585	4,17,530	1,32,897	5.30	60,000	1,682	71,215	2.83	123	68-17
1931-32 .	65·16	25,08,734	3,86,333	1,04,727	4.17	70,000	+17,805	52,532	2.09	114	72.89
1932-33 .	65-16	25,19,857	3,56,969	90,071	3.57	80,000	+31,857	41,928	1.66	105	74.79
1033-34 .	65-16	25,11,669	3,03,968	39,280	1.56	80,000	+77,330	1,16,610	4.64	90	87.08
1934-35 .	65•16	25,19,885	3,53,506	1,06,892	4.20	50,000	-10,156	96,736	4.20	104	69.70
1935-36 .	65-16	25,57,160	3,55,671	1,16,385	4.55	50,000	6,132	1,10,253	4.31	105	67.20
1936-37 .	65.16	25,52,169	3,27,322	1,00,397	3.90	47,048	+2,446	1,02,843	4.03	97	69.30

4. BANKURA-DAMOODAR RIVER RAILWAY (2' 6" gauge).

Managing Agents.—Messrs. McLeod & Co., Calcutta.

Date of registration of the Company.—30th March 1914.

Sanction to the construction of this line by the Bankura-Damoodar River Railway Company was conveyed in Railway Board's Notification No. 103, dated the 1st May 1914.

Progress in opening-

		Sect	ions o	f rai	ilway.						Date of opening.	Miles.	Total.
			1								 2	3	4
Bankura to Indas Indas to Sehara Bazar Sehara Bazar to Rainagar	:	:	•			•	•	•	٠.	:	15-12-16 1-4-17 6-0-17	42·34 11·66 5·95	
					Тота	٠.	•					••	59.95

Details of construction-

Permanent-way.—The permanent-way consists of .35-lb flat-footed British standard section rails laid on sal sleepers.

Ballast .- Moorum is used on embankments and brick in cuttings.

Fencing.—The line is unfenced.

Curves.—The sharpest curve has a radius of 310 feet at Bankura...

Gradients.—The ruling gradient is 1 in 150.

Contract-

Dated the 6th September 1918, between the Secretary of State and the Bankura-Damoodar River Railway Company, Limited, as to the construction, maintenance and working of the line.

Main provisions of contract—

The same as noted under Burdwan-Katwa Railway, except the earliest date when the Secretary of State may, by giving 12 months' previous "Notice of purchase" determine the contract, which is 31st March 1947.

	•••••										
Year		Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (i) lines partly or wholly under construction.	Gross earnings.	Not earnings	Percentage of net earnings on total capital outlay given in column (3).	Guaran- teed interest recover- able from Govern ment.	Total income.	Percentage of total income on total capital outlay given in column (3).	Earn- ings per mile per week.	Proportion of expenses to earnings
1		2	3	4	5	6	7	8	8	10	11
1916-17		Miles. 42 · 69	Rs.	Rs.	Rs.	0.08	Rs.	Rs.		Rs.	00.00
1917-18	•	59.95	33,93,875	22,433	2,485	0.07			: '	10	88.92
1917-18	•	59.95	35,57,279	1,28,046	6,928	0.19	59,489	66,417	1.87	41	94.58
1919-19	•	59.95	35,43,089	1,83,444	14,618	0.41	1,04,382	1,19,300	3.36	· 59	92.03
1920-21	•	59.95	35,49,983 35,71,273	2,26,327	82,530	2.32	57,079	1,39,609	3.93	73	63.53
1921-22	:	59.95	36,34,462	1,75,548 1,95,998	4,139 7,883	0.12	1,22,337	1,26,476	3·54 3·59	56	97·64 95·98
1922-23	:	59.95	36,55,386	1,79,891	-48.54ā	0-22	1,22,720	1,30,603 1,32,618	3.63	63	126.99
1923-24	:	59.95	36,50,919	1.99.030	43,621	i · 19	1,81,163 86,909	1,32,618	3.58	58 64	78.08
1924-25	•	59.95	36,37,036	2,21,827	40,621	1.12	88,518	1,29,139	3.55	71	81.69
1925-26	Ċ	59.95	36,47,323	2,23,531	25,547	0.70	1,03,026	1,28,573	3.53	72	88.57
1026-27	·	59.95	37,20,710	2,14,525	14.808	0.40	1.16.651	1,31,459	3.53	69	93.10
1927-28		59.95	38,06,152	2,11,574	-16,591		1,56,331	1,39,740	3.67	68	107.84
1928-29		59.95	38,40,152	1,82,486	-53,253	-i·39	1,97,427	1,44,174	3.75	59	129.18
1929-30		59.95	39,84,380	2,02,261	-27,571	-0.69	1,74.336	1,46,765	3.68	65	113.63
1930-31		59.95	40,18,583	1,62,248	69,457	-1.74	2,24,186	1,54,729	3.85	52	142.81
1931-32		59.95	40,28,744	1,50,916	-33,133	-0.82	1,90,459	1,57,326	3.91	48	121.95
1932-33		59.95	40,17,135	1,50,438	11,772	0.29	1,38,247	1,50,019	3.73	48	92.17
1933-34		59.95	40,16,973	1,61,592	20,474	0.51	1,26,372	1,46,846	3.66	52	87.33
1931-35		59.95	40,07,447	1,33,283	2,283	0.06	1,45,288	1,47,571	3.68	43	98 29
1935-36		59.95	40,01,461	1,10,745	-34,642	-0.87	1,82,165	1,47,523	3.60	36	131.28
1936-37	•	59.95	40,18,777	1,14,148	-9,643	-0.25	1,57,043	1,47,400	3.67	37	108.45

5. BARASET-BASIRHAT LIGHT RAILWAY (2' 6" gauge).

Managing Agents.—Messrs. Martin & Co., Calcutta.

Date of registration of the Company.—30th July 1903.

progress in opening-

Sections of railway.					Date of opening.	Miles.	Total.	Grand Total, 5
Main line— Barnset to Basirhat				•	1-2-05	26.00		
Shambazar branch—			•		2-3-09	8-59	31.50	
Beliaghnta Bridge to Pattipooker Pattipooker to Belgatchia (Shambazar) .	•	:	:	:	16-2-10 2-10-14	16·62 1·12	17.74	
GRAND TOTAL		٠	•	•	••			52.24

Details of construction-

Permanent-way.—The permanent-way consists of 30 lb. flat-footed steel rails on sal sleepers except 328 miles which is of 414 lbs F.F. rails.

Ballast .- The line is ballasted with broken brick.

Fencing. —The line is unfenced.

Curves.—The sharpest curve has a radius of 414 feet.

Gradients.—The ruling gradient is 1 in 250.

Agreements and Local Government orders-

Agreement, dated the 14th December 1897 (called the principal agreement), between the District Board of the 21-Parganas and Messrs. Martin and Company on behalf of the Baraset-Basirhat Tramway Company, Limited, as to the grant of a concession to the Tramway Company by the District Board;

Agreement, dated the 14th May 1902 (supplemental to the agreement of 1897), between the District Board of the 24-Parganas and Messrs. Martin and Company on behalf of the Baraset-Basirhat Tramway Company, Limited, modifying clause 4 of the agreement of 1897;

The Baraset-Basirhat Tramway Company order, published under the Bengal Government, Railway Department Notification No. 86-R., dated the 15th May 1903;

as to the construction, maintenance and working of the line from Baraset to Basirhat.

Agreement, dated the 3rd August 1903, between the District Board of the 24-Parganas, Messrs. Martin and Company and the Baraset-Basirhat Light Railway Company, Limited, as to the adoption as between the Board and the new Railway Company of the agreement of 1897, as modified by the agreement of 1902, and as to the discharge of the Promoters from all liability thereunder or in respect thereof.

Agreement, dated the 6th November 1907 (supplemental to the agreements of 1897, 1902 and 1903), between the District Board of the 24-Parganas and the Baraset-Basirhat Light Railway Company, Limited;

The Baraset-Basirhat-Taki Extension order, published under the Bengal Government, Railway Department Notification No. 22-R., dated the 23rd November 1907;

Agreement, dated the 21st December 1908 (supplemental to the agreements of 1897, 1902, 1903 and 1907), however the District Board of the 24-Parganas and the Baraset-Basirhat Light Railway Company, Limited;

The Baraset-Basirhat-Pattipooker Extension order, published under the Bengal Government, Railway Department Notification No. 9-R., dated the 19th February 1909;

Agreement, dated the 7th August 1914 (supplemental to the aforesaid agreements), between the District Board of the 24-Parganas and the Baraset-Basirhat Light Railway Company, Limited;

The Baraset-Basirhat-Belgatchia Extension order, published under the Bengal Government Railway Department, Notification No. 12-R., dated the 15th August 1914;

as to the construction, maintenance and working of the extension from Basirhat to Taki and Hosanabad as a part of the Baraset-Basirhat Light Railway.

as to the construction,
maintenance and
working of an extension from Beliaghata bridge to Pattipooker, as part of
the Baraset-Basirhat
Light Railway.

as to the construction, maintenance and working of an extension from Pattipooker to Belgatchia as part of the Baraset · Basirhat Light Railway.

5. BARASET-BASIRHAT LIGHT RAILWAY (2' 6" gauge) -concld.

Main provisions of agreements and Local Government orders-

- (i) Land.—Land, other than portions of the Calcutta-Jessore Road and the District Road between Baraset and Taki, the free use of which in perpetuity is authorised by the Local Government and the District Board, respectively, provided at the cost of Company's capital.
- (ii) Aid by the District Board.—The District Board recommend and apply to the Local Government either to exempt the Company from the road cess or to exact only a nominal tax for a period of 21 years from the date when the line is opened for traffic, with power of renewal. The District Board also guarantee such an annual subsidy as may be necessary to make the net profits of the Company equal to Rs. 1,500 per mile of line open, provided that the total contribution by the Board does not exceed Rs. 38,000 per annum, being 4 per cent. on the amount of the Company's share capital.
- (iii) Distribution of profits.—Surplus profits in excess of 4 per cent. after setting aside such sums as the Directors may decide, on the Company's share capital are divisible equally between the District Board and the Company.
- (iv) Rates and fares.—Certain maxima fares for passengers, and a tariff of charges for goods have been fixed.
- (v) Special obligations as to the conveyance of-
 - (a) Mails and Postal officers and servants on duty.—At the rates, and on the conditions in force from time to time on State railways.
 - (b) Troop3, police, high Government officials and Government stores —
 (c) Government bullion and coin, and the persons in charge thereof.
- (vi) Power of the District Board to determine agreement.—Upon the expiration of 21 years from the date of the Local Government order authorising the construction of the line, or at the end of every 7 years thereafter, the District Board, by giving 6 months' notice, can purchase the undertaking by paying to the Company 20 times the average net annual profits of the 4 years preceding the transaction, together with a bonus of 20 per cent. thereon.
- (vii) Power of the Company to surrender agreement.—Nil.
- (viii) Terms of reement [if not determined under (vi)].—Not specified.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14).

		m	ī								
Year.	Mileage open at end of each year.	Total capital outlay, includ- ing suspense, to end of each year, i.e., out- lay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Amount credited to Renewal Reserve Account.	net pro- fits paid to the	Total income.	Percentage of total in come on total capital outlay given in column (3).	Earn- ings per mile per week,	Propertion of expenses to earnings.
1	2	3	4	5	6	7	8	9	10	11	12
1913-14 1914-15 1915-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1923-24 1924-25 1926-27 1927-28 1928-29 1929-30 1930-31 1931-32 1933-34 1933-34 1934-35 1935-36	Miles. 51-12 52-24 52-24 52-24 52-24 52-24 52-24 52-24 52-24 52-24 52-24 52-24 52-24 52-24 52-24 52-24 52-24 52-24 52-24	Rs. 23,08,116 23,99,927 23,80,575 23,81,739 23,85,399 23,85,399 23,94,491 24,19,571 24,35,544 24,60,474 24,16,722 24,23,763 24,20,010 24,27,025 25,12,125 25,47,971 26,02,815 25,62,733 25,53,541 25,63,388 25,76,663 26,06,022	Rs. 3,28,574 3,48,900 3,74,450 3,57,024 3,08,313 3,44,840 4,05,553 4,41,193 4,42,659 4,91,392 5,22,434 5,81,603 6,14,789 5,67,050 5,81,498 5,64,721 6,26,210 5,75,194 5,57,070 4,51,690 5,53,500 4,96,316 5,46,165	Rs. 1,36,598 1,33,617 1,52,380 1,35,415 92,778 1,38,106 1,05,830 2,10,631 1,54,397 1,62,919 2,03,205 2,62,737 3,10,494 2,07,529 1,93,542 1,62,148 1,61,706 1,32,597 1,29,956 74,206 1,31,833 9,5,746 1,11,840	5.91 5.56 6.40 5.69 3.89 5.78 6.93 8.70 6.34 7.43 8.41 10.84 12.83 8.55 7.70 6.21 5.17 5.09 2.89 5.11 3.71 4.29	Rs. 10,000 19,000 20,000 Nil 17,500 35,000 17,000 25,000 17,500 60,000 60,000 40,000 20,000 20,000 20,000 20,000 50,000 70,000 50,000 72,000 72,000	Rs. 16,052 10,348 16,010 12,932 2,624 11,450 16,349 27,376 20,804 31,930 43,959 49,953 66,840 27,817 43,723 11,906 24,751 6,235 4,698 33,773 12,089 Nii 8,386	Rs. 1,10,548 1,04,269 1,16,370 1,09,083 90,154 1,09,166 1,14,481 1,28,165 1,16,593 1,30,989 1,34,336 1,52,784 1,83,654 1,33,712 1,49,819 1,32,242 1,36,955 1,26,362 1,25,258 87,979 1,10,744 0,5,746 1,03,454	4·78 4·34 4·89 4·61 3·77 4·57 5·29 5·32 5·32 5·55 6·30 7·59 5·67 5·54 6·91 3·43 4·63 3·71 3·96	Rs. 124 128 138 131 113 127 149 163 162 180 214 226 209 214 208 231 212 205 166 204 183 201	58·42 61·71 59·30 62·07 69·90 59·95 59·11 52·28 65·12 62·76 61·09, 54·82 49·49 63·40 66·71 73·05 74·18 76·95 76·50 80·70 79·51

6. BENGAL PROVINCIAL RAILWAY SYSTEM.

Lines comprised in the system-The Bengal Provincial railway system is made up of-

(a) Bengal Provincial railway (2' 6" gauge) (b) Dasghara-Jamalpurgunj railway (2' 6" gauge)	•	:	:	:	:	•	•	:	-	Miles, 33·27 8·31
								Total		41.58

(a) Bengal Provincial railway (2' 6" gauge)-

Date of registration of the Company-1890.

Progress in opening-

	;	Sec	tions	of rail	way				į	Date of opening.	Miles	Total.
		 		,1			~			2	3	4
Tarkessur to Rudrani	ì									7-11-94	12.50	
Rudrani to Magra	:									8-3-95	18.62	,
Mogra to Tribeni	1					٠.				14-4-04	2 · 15	
	١						ı	CTAL	,			33 · 27

Details of construction-

Permanent way —The permanent way of the main line consists of 30-lb flat-footed steel rails laid for 10 miles on steel transverse sleepers and for the remainder on pynkado and sâl sleepers. The Tribeni extension is laid on sâl sleepers.

Ballast.—Sand and broken brick.

Fencing.—The line is partially fenced.

Curres.—The sharpest curve is of 716.25 feet radius.

Gradients.—The ruling gradient on the main line is 1 in 1,000; there are short gradients of 1 in 500 to 1 in 700 at bridge approaches; from the bridge under the East Indian Railway to Magragunj station, the line is on a gradient of 1 in 350. The ruling gradient on the Tribeni extension is 1 in 500.

Agreements and Local Government order-

Agreement, dated the 16th October 1890, be'ween the District Board of Hooghly and the Promoters of the Bengal Provinci l Rankway Company, scheduled to the order quoted below;

as to the construction, maintenance and working of the line from Tarkessur to Magra

The Bengal Provincial Railway Company order, published under the Bengal Government, Railway Department, Notification No. 1, dated the 4th January 1896.

Agreement, dated the 12th March 1904, between the Secretary of State and the Bengal Provincial Railway Company, as to the construction, maintenance and working of the extension from Magra station to Tribem bathing ghat on the Hooghly river.

Main provisions of agreements and Local Government order—

- (i) Land.—
 Land required for the purposes of the main line, from Tarkessur to Magra acquired by the Government of Bengal at the cost of the Company; and that for the extension from Magra station to Tribeni Ghat on the Hooghly river provided by Government free from rent or other charges.
- (iii) Distribution of profits.—The profits go to the Company.
- (iv) Rates and farcs.—Certain maximum fares for Passengers and maximum and minimum rates for goods traffic, combined with the General Classification of goods of the Indian Railway Conference Association, which are usual on Indian 5' 6" gauge railways, have been fixed. Full control over charges of all kinds is reserved to the Local Government.
- (v) Special obligations as to the conveyance of—
 - (a) Mails, Postal officers and servants on duty.—To be conveyed at the rates and on the conditions in force from time to time on State railways.
 - (b) Troops, police, high Government officials and Government stores.—

 Nil

 (c) Government bullion and coin, and the persons in charge thereof.—
- (vi) Power of the Local Authority to determine agreement.—In the event of the District Board of Hooghly wishing to purchase the railway at the end of 21 years after the date of the Government order sanctioning the construction of the railway, or at the end of every 7 years thereafter, the promoters bind themselves to make it over at a price two-fifths in excess of the original capital outlay.

6. BENGAL PROVINCIAL RAILWAY SYSTEM-contd.

(a) Bengal Provincial Railway (2' 6" gauge)—concia.

Main provisions of agreements and Local Government order-concld.

(vii) Power of the Company to surrender agreement.—Nil.

(viii) Term of agreement [if not determined under (vi)] .- None specified.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14).—

	Year 1	•		Milenge open at end of each year. 2	Total capital outlay, includ- ing suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction 3	Gross carnings.	Net earnings, 5	Percentage of net carnings on total capital outlay given in column (3).	Earnings per milo per weck.	Proportion of expenses to carnings.
			-	Miles.	R4.	Rs.	Rs.		Ra.	1
1913-14				33 · 27	11,55,833	1,43,439	46,813	4.05	78	65.15
1914-15				33 · 27	11,77,092	1,42,956	47,416	4.03	82	60.81
1915-16				33 · 27	11,85,221	1,40,725	44,781	3.78	81	68.15
1916-17				33 · 27	11,89,222	1,27,705	33,168	2.70	73	74.04
1917-18	•			33 27	11,97,510	1,08,861	11,043	1.00	63	80.03
1918-19				33 · 27	11,03,042	1,26,138	24,020	2.01	73	80.06
1919-20			•	33 27	11,96,936	1,36,107	30,256	2.53	78	77.77
1920.21		•	•	33 · 27	11,92,391	1,33,606	18,280	1.53	77	86.32
1921-22	•	•	•	33.27	11.47.790	1,44,465	10,811	0.04	83	92.50
1922-23	•	•	•	33.27	11.87.567	1,22,023	2,662	0.22	70	97.83
1923-21	•	•	•	33.27	11,82,473	1,50,895	36,814	3·11 4 33	87 92	75 · 60 68 · 65
1924-25	•	•		33.27	11,79,596	1,60,093	51,145	3.05	05	71.51
1925 26	•	•	•	33.27	11,00,026	1,65,139	47,050 43,181	3.62	113	73.30
1926-27	•	•	•	33.27	11,90,108	1,61,745 1,62,818	21,028	1.77	71	87.09
1927-28	•	•	•	33.27	11,84,526	1.51.032	30.730	2.59	87	79.65
1928-29	•	•	•	33 27	11,81,552	1,51,422	44,237	3.74	89	71.36
1929-30	•	•	٠	33·27 33·27	11,81,810	1,34,473	7,324	0.62	77	94.55
1030-31	•	•	•		11,81,261	1,15,832	16.189	1.37	67	86.02
1931-32	•	٠	•	33·27 33·27	*11,81,837 11,85,010	1,10,002	10,712	0.03	03	90.28
1932-33	•	•	•	33.27	11,80,747	1.06,857	0.790	0.00	61	93.65
1933-31 1934-35	•	•	• ,	33.27	11.80.177	96.212	5,747	0.49	55	04.03
1934-35	•	•	•	33.27	11,75,020	76,271	-3,561		44	104.65
1936-37	•	•		33.27	11,74,180	80,910	4,601	0.39	50	94.70

(b) Dasghara-Jamalpurgunj railway (2' 6" gauge).—

The line is owned by the Bengal Provincial Railway Company. Sanction to its construction was conveyed in Railway Board's Notification No. 38, dated the 17th February 1915.

Progress in opening-

	Sceti	on of railway.				-	Date of opening.	Miles.	Total.
		1					2	3	6
Dasghara to Jamalpurgunj	4		•	•	•		1-9-17	8.31	8.31

Details of construction-

Permanent-way.—The permanent-way consists of 30-lb. and 41\frac{1}{4}-lb flat-footed steel rails on sal sleepers. Ballast.—The line is partly ballasted.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 955 feet radius.

Gradients.—The ruling gradient is 1 in 500.

Contract-

Dated the 1st August 1919, between the Secretary of State and the Bengal Provincial Railway Company as to the construction, maintenance and working of the Dasghara-Jamalpurgunj railway.

Main provisions of contract—

(i) Land.—Land in British territory provided free of cost to the Company.

- (ii) Government aid.—When the net receipts shall not be sufficient to pay interest at the rate of 3½ per cent. per annum on the paid up share capital of the Company in respect of this railway, the Secretary of State shall pay such a sum as shall, together with a proportion, specified below, of the net receipts, make up an amount equal to interest at 3½ per cent. on the same proportion of the share capital. The proportion referred to is that which the paid up share capital, less any capital spent on additional rolling-stock provided in respect of this railway, bears to its paid up capital.
- (iii) Terms of working.—The line is managed, maintained, provided with rolling-stock and worked for the same percentage of its gross earnings as the working expenses of the whole system bear to the gross earnings of that system, provided that the working expenses of this line shall not exceed 50 per cent. of its gross earnings and that the cost of any rolling-stock for the joint working of the system shall be divided between and charged to the capital account of the railways forming the system in proportion to their respective mileages.

^{*} The figures do not agree with the corresponding figures appearing in Vol. II of the Report for 1931-32 as the figures of capital outlay in History include an adjustment for 1930.31.

6. BENGAL PROVINCIAL RAILWAY SYSTEM-concld.

(b) Dasghara-Jamalpurgunj railway (2' 6" gauge)—concld,

Main provisions of contract----concld.

(iv) Distribution of profits.—If the net receipts shall exceed the minimum amount sufficient to pay interest on the paid up share capital at the rate of 5 per cent. per annum such excess shall be divided equally, and one moiety shall be paid to the Company; and of the second moiety a proportion, as specified in (ii) above shall belong to the Secretary of State and the balance shall be paid to the Company.

If the net receipts do not amount to a sum sufficient to pay interest at the rate of 5 per cent. per

annum the whole of such net receipts shall belong to the Company.

(v) Rates and fares.—The rates and fares for the carriage of goods and coaching traffic shall be such as may from time to time be sanctioned by the Secretary of State, and the classification of goods thereon shall be in conformity with that from time to time in force on State railways of a similar gauge, provided that in making charges to the public within the sanctioned maxima and minima. the Company shall not calculate the same otherwise than in accordance with the rates authorised and shall make no rebate or other concession which will have the effect of bringing any rate actually paid below the minima authorised.

(vi) Special obligations as to the conveyance of-

(a) Mails, troops, police, high Government \ All services in connection with the Post Office, officials and Government stores.—

Army, Police and other Departments of Government shall be performed in the same manner and subject to the same regulations and conditions as to rates and otherwise as are for the time being in force on State railways for similar gauge.

(b) Government bullion and coin; and the persons in charge thereof .-

(vii) Power of the Government to determine contract.—The Government may, by giving 12 months' previous notice of purchase,' determine the contract either on the 31st March 1948, or on the 31st March in the last year of any subsequent period of 10 years.

The Government may also, by giving 'notice of special purchase,' determine the contract at any time in

the following cases :-

(a) when it is considered desirable to alter the gauge of the railway;

(b) when it is considered desirable to convert the railway into a line of through communication; and

(c) when it is considered desirable to extend the railway and the Company does not provide funds for such extension.

If the contract be determined by 'notice of purchase' the Secretary of State shall pay to the Company 25 times the amount of the average of the yearly net earnings during the last preceding 3 years, provided that the total amount so payable shall not in any case exceed by more than 20 per cent., or be less than, the total capital expenditure of the Company.

If the contract be determined by 'notice of special nurchase,' the Secretary of State shall pay to the Company 25 times the average of the yearly net earnings during the last preceding 3 years or 115 per cent. of the total capital expenditure, whichever may be the greater.

(viii) Power of the Company to surrender contract .- Nil.

(ix) Term of contract [if not determined under (vi)].—Not specified.

Year. Milea open Year. end each year	t year, i.e., outlay f on (i) lines open and (ii) lines	Gross earnings.	Net carnings	Percentage of net earnings on total capital outlay given in column (3).	Guaran teed interest recover- able from Govern- ment.	Total income (column 5+ column 7).	Percentage of total income on total capital outlay given in column (3).	Earn- ings per mile per week.	Proportion of expenses to earnings.
1	Rs. 2,46,025 1 2,66,695 1 2,60,701 2 3,04,980 1 3,27,224 1 3,33,812 1 3,33,812 1 3,33,778 1 3,38,990 1 3,38,975 1 3,37,461 1 3,37,461 1 3,37,461 1 3,37,461 1 3,37,461 1 3,37,461 1 3,37,461 1 3,37,461 1 3,37,461 1 3,37,461	Rs 5,003 15,820 16,067 17,516 19,054 18,478 21,225 21,728 22,523 22,779 24,368 20,174 22,205 20,139 16,950 14,615 14,098 13,323 10,090	Rs. 2,034 7,445 7,582 7,158 3,208 3,812 7,575 8,378 10,570 9,823 10,235 7,008 6,522 6,832 2,585 2,624 403	0.83 2.90 2.91 2.35 0.98 1.14 2.27 2.50 3.17 2.89 3.01 2.06 1.93 2.02 1.87 1.15 0.78 0.78	Rs. 1,991 2,090 2,017 1,069 937 936 734 738 499 627 Nil 1,039 542 1,621 3,551 4,719 4,977 5,365 6,981	Rs. 4,025 9,541 9,599 6,227 4,145 4,728 8,309 9,116 11,060 10,450 10,450 10,450 8,453 8,917 7,064 8,453 9,504 8,268 7,562 7,989 7,384	1 · 63 3 · 72 2 · 68 2 · 70 1 · 42 2 · 49 2 · 73 3 · 31 3 · 08 3 · 01 2 · 93 2 · 54 2 · 54 2 · 26 2	Rs. 20 36 37 40 47 43 49 50 52 47 52 47 32 22 23	59.24 52.95 59.18 83.32 79.11 64.36 61.44 53.07 56.87 58.00 65.26 70.76 60.07 62.39 73.42 81.64 80.30 96.00

BOMBAY PORT TRUST RAILWAY (5' 6" gauge).

The Railway serves all the Docks of the Port of Bombay and also the Bunders on the east of the Island north of the Ballard Pier, as well as various depots allotted to certain trades. It is intended primarily for goods traffic, but also conveys troop trains and postal and passenger trains run in connection with the mail steamers.

It consists of a double line track for its whole length, as well as of reception and sorting yards, eleven stations, and a large number of private sidings and numerous sidings in the docks.

Sanction to the construction of this line by the Bombay Port Trust was conveyed in Railway Board's Notification No. 152, dated the 28th May 1913.

Progress in opening-

Sections of Railway.	Date of opening.	Miles.	Total.
1	2	3	4
Wadala Junction to Victoria Overbridge	1-1-15 1-2-15	7·60 5·04	
TOTAL . Total length of sidings Total .	••	 104·28	13·03 104·28 117·91

Details of construction-

Permanent-way.—The tracks are laid throughout with 75 lb. flat-footed steel rails with the exception of 2·50 miles which are laid with 90 R. lbs. flat-footed rails and 3·32 miles laid with 90 lbs. old section flat-footed rails. Timber sleepers have been used, principally sal, except for 15·92 miles of track which are laid with pea-pod steel sleepers.

Ballast.—As the greater part of the Railway was laid on newly reclaimed ground, moorum ballast was used extensively for packing and boxing, but now that the ground has become consolidated blue stone ballast is used throughout the main lines.

Fencing.—The line is fenced where necessary.

Curves.—The radius of the sharpest curve is 400 feet.

Gradients.—The steepest gradient on the line is 1 in 277, near the Nawab Tank Bridge.

Contract—

Main provisions of Contract

Nil. The line is owned and worked by the Bombay Port Trust.

Statistics of working-Not available.

7. BUKHTIARPUR-BIHAR LIGHT RAILWAY (2' 6" gauge).

Managing Agents.—Messrs. Martin & Co., Calcuita.

Date of registration of the Company.—19th July 1901.

Progress in opening-

			Sec	tions	of rail	lway.					Date of opening.	Miles.	Total.
				1			 				2	3	4
Bukhtiarpur on th	ie Eas	t Ind	ian rai	ilway	to Bil	ar					1-7-03	18.50	
Bihar to Silao .											17-7-09	9.50	
Siloo to Rajgir		•	•	•		•		•			1-11-11	5.00	
								Τo	TAT.	•	••	••	33.00

Details of construction-

Permanent-way.—The permanent-way consists of 30-lb. flat-footed steel rails laid on sâl sleepers, except for 4 miles, between Silao and Rajgir, which are laid with 25-lb. flat-footed rails on sâl sleepers. In the last 4 miles extra sleepers have been used.

Ballast.—The ballast consists of broken stone, except in the first few miles where a portion of the packing has been done with broken brick.

Fencing.—The line is unfenced.

Curves.—The sharpest curve has a radius of 260 feet.

Gradients.—The grades are easy, except at bridge approaches and up through the villages of Chero and Rajgir where the grade is 1 in 100.

Agreements and Local Government orders-

Agreement, dated the 21st August 1899, between the District Board of Patna and Messrs. Martin and Company of Calcutta, the Promoters, on behalf of the Bukhtiarpur-Bihar Light Railway Company;

The Bukhtiarpur-Bihar Tramway Company order published under the Bengal Government, Railway Department, Notification No. 100-R., dated the 25th June 1901;

Agreement, dated the 16th August 1901, between Messrs. Martin and Company of Calcutta and the Bukhtiarpur-Bihar Light Railway Company;

as to the construction, maintenance and working of the Bukhtiarpur-Bihar Light railway.

Agreement, dated the 17th February 1904, between the District Board of Patna and the Bukhtiarpur Bihar Light Railway Company, as to the use of land for a siding at Bihar.

Agreement, dated the 2nd June 1908 (supplemental to the agreements) of 1899 and 1901), between the District Board of Patna and the Bukhtiarpur-Bihar Light Railway Company;

The Bukhtiarpur-Bihar Extension order published under the Bengal Government, Railway Department Notification No. 11-R., dated the 15th June 1908;

as to the construction, maintenance and working of the extension of the Bukhtiarpur-Bihar Light railway from Bihar to Silao.

The Bukhtiarpur-Bihar-Rajgir Extension order published under the Bengal Government, Railway Department, Notification No. 20-R., dated the 14th November 1911;

Agreement, dated the 28th November 1911 (supplemental to the agreements of 1899, 1901 and 1908), between the District Board of Patna and the Bukhtiarpur-Bihar Light Railway Company;

as to the construction, maintenance and working of the extension of the Bukhtiar-pur-Bihar Light Railway from Silao to Rajgir.

Main provisions of agreements and Local Government orders—

- (i) Land.—The District Board of Patna grant to the Bukhtiarpur-Bihar Light Railway Company in perpetuity, subject to their right of purchasing the line [as in (vi) below], the free use of so much of the side portion of the District Board road between Bukhtiarpur and Rajgir as is necessary, but not exceeding a width of eight feet, for the purpose of the railway; and promote the acquisition of any additional land required outside the boundary of the said road at the cost of the Company.
- (ii) Aid by the Local Authority.—The District Board of Patna will recommend and apply to the Local Government either to exempt the Bukhtiarpur-Bihar Light Railway Company from the tax on account of road cess or to exact only a nominal tax for a period of twenty-one years from the date when the line is opened for traffic, with power of renewal. The Board also guarantee to supplement the net earnings of the Company by such annual subsidy as may be necessary to allow of the Company paying a dividend of 4 per cent. per annum on their share capital, provided that the total liability of the Board on this account in any one year shall not exceed Rs. 32,000 or the sum of 4 per cent. on the Company's share capital.

7. BUKHTIARPUR-BIHAR LIGHT RAILWAY (2' 5" gauge)—concld.

Main provisions of agreements and Local Government or lers -concid.

- (iii) Distribution of profits.—Any surplus profits in excess of 4 per cent., after setting aside such sums as the Directors may decide, on the capital for the time being of the Railway Company, are to be equally divided between the District Board of Patna and the Company.
- (iv) Rates and fares.—Certain maximum rates of fares for passengers and tariff of charges for goods have been fixed. Full control over charges of all kinds is reserved to the Local Government.
- (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—
 (b) Government bullion and coin, and the persons in charge thereof.—
- (vi) Power of the Local Authority to determine agreement.—Upon the expiration of 21 years, from the date of the Local Government order authorising the construction of the line, or at the end of every seven years thereafter, the District Board of Patna have, by giving six months' previous notice, the right of purchasing the line by paying to the Company the value calculated at twenty years' purchase of the average net annual profits of the Company during the four years preceding the transaction together with a bonus of 20 per cent. thereon.

N.B.—The Local Authority did not exercise their right of purchasing the line in 1922.

- (vii) Power of the Company to surrender agreement.—Nil.
- (viii) Term of agreement.-None specified.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14)—

									<u> </u>		
Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross carnings.	Net carnings.	Per- centage of net earnings on total capital outlay given in column (3).	Amount credited to Renewal Reserve \ccount.	or share of not profits to (—), the	Total income.	Percent- nge of total income on total capital outlay given in column (3).	Earn- ings per mile per week	Pro- portion of expenses to earnings
1	2	3	4	5	6	7	s	Ð	10	11	12
•	Miles.	Rs.	Rs.	Ra.		Rq.	Ra.	Re		Rs.	
1913-14 1914-15 1915-16 1916-17 1917-18 1918-19 1019-20 1920-21 1921-22 1922-23 1922-23 1923-24 1924-25 1928-26 1928-27 1927-28 1928-29 1929-30 1930-31 1931-32 1932-33 1933-34 1934-35 1935-36 1936-37	33 · 00 33 · 00	13,11,472 13,59,590 13,59,676 13,59,598 13,83,955 13,92,455 14,20,178 14,19,614 14,19,628 14,41,303 14,31,322 14,60,821 14,67,119 14,78,347 14,83,361 15,10,164 15,05,063 15,11,190 15,25,659 15,25,853 15,19,837 15,12,666 15,31,018 15,40,985	1,58,559 1,65,032 2,31,282 1,56,949 1,90,925 1,59,610 1,78,6279 2,77,625 3,82,200 3,08,974 3,61,328 4,31,918 4,31,918 4,04,596 3,07,64 2,08,014 1,01,596 2,08,014 2,57,095 2,82,128	46,537 60,280 1,00,188 62,192 81,388 62,090 47,755 2,03,869 1,12,010 98,225 1,74,324 1,40,101 1,75,565 2,62,935 1,58,479 1,40,263 96,652 1,06,753 1,01,826 35,431 1,15,345 69,753 65,921	3.54 4.41 8.03 4.57 6.09 4.45 3.36 14.36 7.89 3.81 12.17 9.59 11.96 10.77 10.68 9.33 7.26 6.40 7.00 6.67 2.30 7.59	\$,000 4,500 32,000 5,000 15,000 4 500 17,500 17,500 65,000 50,000 45,000 50,000 40,000 90,000 45,000 15,000 30,000 32,300 34,236	+18,802 -1,259 -9,306 -1,888 -7,373 -1,980 +5,673 -46,585 -17,658 -12,215 -23,290 -14,240 -33,293 -50,256 -37,306 -29,546 -19,432 -9,834 -2,636 +30,265 Nii -2,739 -472	57,339 54,521 67,852 55,304 62,015 55,610 53,428 1,17,284 76,852 71,010 86,034 75,861 97,272 1,27,679 1,21,173 1,11,402 89,831 1,11,402 89,831 1,11,402 6,619 65,608 1,15,345 67,014 65,449	4·37 4·01 4·09 4·48 3·99 3·76 8·26 6·01 6·63 8·63 8·17 7·38 5·51 0·45 3·55 4·32 4·32 4·32 4·32	92 97 135 93 104 205 161 188 220 210 227 198 193 236 179 121 177 150	70.65 63.67 52.79 60.37 57.12 61.09 73.27 42.28 56.79 63.83 54.65 51.41 39.12 59.02 67.79 70.32 73.62 68.91 81.90 72.80 76.60

8. BURDWAN-KATWA RAILWAY (2' 6" gauge).

Managing Agents.—Messrs. McLeod & Co., Calcutta.

Date of registration of the Company.—1913.

Construction of this line by the Burdwan-Katwa Railway Company was authorised in Railway Board's telegram No. 3711-R.C., dated the 30th December 1913.

Progress in opening-

Progress in opening—		i		
,	Section of railway.	Date of opening.	Miles.	Total.
	. 1	2	3	4
Burdwan to Katwa .		1-12-15	32.47	32·47

Details of construction-

Permanent-way.—The permanent-way consists of 35-lb. flat-footed rails laid on sâl sleepers.

Ballast .- The line is ballasted with moorum, except in station yards and on open top bridge approaches where stone or brick ballast has been used.

Fencing.—The line is not fenced.

Curves.—The sharpest curve has a radius of 250 feet at Shrikhanda station.

Gradients.—The ruling gradient is 1 in 200.

Contract-

Dated the 5th April 1917, between the Secretary of State and the Burdwan-Katwa Railway Company, Limited, as to the construction, maintenance and working of the line.

Main provisions of contract-

- (i) Land .-- Provided by Government free of cost to the Company.
- (ii) Government aid. When the net receipts all not be sufficient to pay interest at the rate of 3½ per cent. per annum on the paid-up share capital, the Secretary of State shall pay the Company a sum which together with the net receipts will make up an amount equal to $3\frac{1}{2}$ per cent. When the net receipts for any year do not exceed 5 per cent per annum on the paid-up share capital the whole of such not receipts shall belong to the Company. When the net receipts in any year exceed 5 per cent. on the paid-up share capital such excess shall be divided equally between the Secretary of State and the Company.

(iii) Distribution of profits.-

- (iv) Rates and fares.—Rates and fares shall be such as may from time to time be sanctioned by the Secretary of State and the classification of goods shall be in conformity with that from time to time in force on State Railways of a similar gauge.
- (v) Special obligations as to the conveyance of mails, troops, police, etc.—To be conveyed in the same manner and subject to the same regulations and conditions as are in force on State Railways of
- (vi) Power of Government to determine contract.—The Secretary of State may at any time, by giving six months' notice, assume the working of the railway by State or any other agency, if the Company are guilty of any breach of contract, or gross mismanagement, or if the working expenses have exceeded the gross earnings for three consecutive years.
- The Secretary of State may, by giving 12 months' previous "Notice of purchase," determine the contract either on the 31st March 1946 or on the 31st March in the last year of any subsequent period of ten years, paying to the Company a sum of money equal to 25 times the amount of the average of the yearly net earnings during the 3 years immediately preceding, but the amount so payable shall not exceed by more than 20 per cent. the total capital expenditure or be less tha nsuch capital

The Secretary of State may also, by giving 12 months' previous "Notice of special purchase," determine the contract at any time in the following cases:-

- (a) When it is considered desirable that the gauge of the Railway should be altered.
- (b) When it is desired to convert the Railway into a line of through communication.
- (c) When it is desired to extend the Railway and the Company does not, within six months from date of formal requisition, raise such additional capital.
- If the contract is determined by "Notice of special purchase" the Secretary of State shall pay the Company 25 times the average of yearly net earnings during the 3 years immediately preceding or 115 per cent. of the total capital expenditure whichever may be greater.
- (vii) Power of the Company to surrender contract.—Nil.
- (viii) Term of contract.—Shall remain in force until determined under (vi) above.

8. BURDWAN-KATWA RAILWAY (2' 6" gauge)—concld.

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	of net earnings on total capital outlay given in	Guaranteed interest recoverable from (+) or moiety of profits payable to (-) Government.	Total income.	Percentage of total income on total capital outlay given in column (3).	Earn- ings per mile per week.	Pro- portion of expenses to earn- ings.
1	2	3	4	. 5	G G	7	8	9	10	17
	Miles.	Rs.	Rq.	Rs.	-	Rs.	Rs.		Rs.	, .
1915-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27 1927-28 1928-29 1928-30 1930-31	32·52 32·52 32·52 32·52 32·47 32·47 32·47 32·47 32·47 32·47 32·47 32·47 32·47 32·47 32·47 32·47 32·47	17,26,605 17,81,915 17,98,301 18,08,582 18,12,488 18,17,502 18,27,184 18,31,350 18,30,650 18,46,003 18,59,230 18,73,409 10,46,584 19,87,909 20,19,348 20,34,326	38,464 1,33,399 1,32,146 1,41,455 1,70,823 1,77,010 1,74,917 1,96,088 2,05,620 2,11,579 2,33,742 2,14,099 2,10,943 1,76,741 2,06,913 1,93,937	18,625 8,570 32,104 33,814 67,538 38,017 33,279 36,497 70,598 76,994 92,173 68,111 50,545 16,708 42,382 19,051	1·08 0·48 1·79 1·87 3·73 2·08 1·82 1·99 4·35 4·17 4·96 3·64 2·59 0·84 2·10 0·94	+54,229 +29,688 +29,486 +29,238 +29,238 +25,096 -859 -859 +10,195 +50,359 +31,687 +55,250	62,799 61,792 62,300 67,638 62,110 62,517 62,493 79,598 76,994 91,314 68,111 69,740 73,067, 74,669 74,301	3·52 3·44 3·43 3·43 3·40 3·41 4·35 4·17 4·91 3·68 3·68 3·67 3·65	23 78 83 101 99 104 116 122 125 138 127 125 105 123	51.57 93.57 75.70 76.10 60.46 77.23 80.97 81.39 61.29 63.61 60.57 68.19 70.04 90.55 90.18
1931-32 . 1932-33 . 1933-34 . 1931-35 . 1935-36 . 1936-37 .	32·47 32·47 32·47 32·47 32·47 32·47	20,47,677 20,43,657 20,40,381 20,33,168 20,40,485 20,41,792	1,78,391 1,72,552 1,60,525 1,42,293 1,12,556 1,11,985	32,175 44,261 31,050 25,373 74 4,839	1.57 2.17 1.52 1.25 0.24	+44,011 +30,934 +44,333 +53,481 +80,901 +85,955	76,186 75,195 75,383 78,854 80,975 81,116	3.72 3.68 3.69 3.88 3.97 3.97	106 102 95 84 67 66	81 · 96 74 · 35 80 · 66 82 · 17 99 · 93 104 · 32

CALCUTTA PORT COMMISSIONERS' RAILWAY (5' 6" gauge).

The railway at the present date provides the terminal for the East Indian, the Eastern Bengal and Bengal Nagpur Railways for goods traffic to and from the Port of Calcutta, and also deals with local goods traffic within the Port between warehouses, sheds and the steamer berths on the river front and at the Kidderpore Docks and the King George's Dock.

The East Indian Railway connects with the system at East Dock Junction (via the E. B. Railway) and at Telkul Ghat on the Howrah side of the River, the Eastern Bengal Railway at Bracebridge Station and Chitpur, and the Bengal Nagpur Railway at West Dock Junction and at Shalimar junction on the Howrah side.

Progress in opening.

Main Line-						D^{ϵ}	ate of opening	Miles.
Bagh Bazar to Meerbohur Ghat							11-1-75	1.76
Cossipore (Gun Foundry Road) to Bagh Bazar (Chi	tpur)						1-6-78	1.14
Meerbohur Ghat to Jetties							1-6-78	0.84
Jetties to Chandpal Ghat							1-12-80	0.32
Chandpal Ghat to Kidderpore Dock (Graving Dock) .						1-1-87	2.16
Graving Dock via Kidderpore Dock to Majerhat (E	ast Docl	k Jun	ction)				0-0-93	2.34
East Dock Junction to West Dock Junction (B. N.	Railway	June	etion)				0-0-01	1.35
East Dock Junction to Garden Reach Berths .	•						2-7-16	2.65
Telkul Ghat (E. I. Railway) to Shalimar (B. N. Rai	lway)						31-12-01	2.20
Branches-								
East Dock Junction to Chetla							0-0-93	1.50
Subsidiary Marshalling Yard to King George's Docl	٠.	•	•		•	•	0-0-28	1.25
			Tota	. 7		-	······································	17.51 miles.

Total track in main lines, marshalling yards, sidings, etc. 182.7 miles.

Details of Construction.

- (i) Permanent-way .--
- (a) Calcutta Side.—The Cossipore Chandpal Ghat Section is entirely laid with steel rails weighing 75 lbs. and 60 lbs. to the yard on wooden sleepers except for a section of 5,586 ft. of track which is laid with D. H. rails on wooden sleepers, and another 640 ft. of track which is laid with D. H. rails on Denham and Olpherts steel sleepers. All packing is done with brick ballast.
- (b) Kidderpore Dock Section.—The total mileage of track on the Kidderpore Dock Section is 90.09 miles.
- The main lines from the Graving Dock to Chetla are laid with 75 lbs. flat footed and D. H. steel rails with cast iron chairs, and 90 lbs. flat footed steel rails on wooden sleepers. The main lines from No. 1 Swing Bridge to Majerhat are laid with 75 lbs. steel rails, both flat footed and double headed with cast iron chairs on wooden sleepers. This section includes most of the track from Dock Junction to the B. N. Railway junction.
- The portion of the track from Shapore to Garden Reach Jetties in this section is laid with 75 lbs. flat footed steel rails on wooden sleepers.
- In the yards there are 60 lbs. 75 lbs., and 90 lbs. per yard steel rails. Some of the 60 lbs. and 75 lbs. rails are double headed with cast iron chairs. There are also steel sleepers and wooden sleepers with cast iron bearing plates in the yards. Practically the whole of the lines is packed with brick ballast.
- (c) King George's Dock and Garden Reach Sections.—The permanent-way in the King George's Dock and Garden Reach Section comprising 22·32 miles of track is laid with 75 lbs. and 90 lbs. flanged rails on wooden sleepers. The packing is done with brick ballast.
- (d) Shalimar Section.—The Shalimar Branch is laid with 75 lbs. double headed steel rails on cast iron chairs and flanged rails spiked on sal sleepers. A section of 2,430 ft. of the main line has been laid with 90 lbs. F. F. rails and six sets of 90 lbs F. F. rail points and crossings.
- (ii) Fencing.—Except for the King George's Dock and Garden Reach Section, and between Dhana Ghat and Gun Foundry on the Cossipore Chandpal Ghat Section the railway lines are ienced throughout

CALCUTTA PORT COMMISSIONERS' RAILWAY (5' 6" gauge)—concld.

Details of construction -concld.

- (iii) Curves.—The radius of the sharpest curve is 250 ft. but the minimum radius in New Yards is now being taken as 547 ft.
- (iv) Gradients.—The ruling gradient on the greater part of the railway is 1 in 300, except where the line passes under the Howrah Bridge approach, where the gradient is 1 in 80 and between Hastings Bridge and Watgunge where the gradient is 1 in 190.
- (v) Contract.—Nil. The line was constructed by the Port Commissioners out of Port Trust Funds and is maintained and worked by them. The land on the left bank of the Hooghly between Chandpal Ghat and Ahiritolla Ghat was conveyed to the Commissioners at a quit rent of Rs. 37,292 per annum. The land north of Ahiritolla was acquired by the Commissioners under the Land Acquisition Act. The Commissioners have only a right of user in the land between Chandpal Ghat and Hastings for the purposes of the tramway.
- The land on the right bank of Hooghly between Telkulghat Road and Sheebpur Ghat Road was acquired by the Commissioners under the Land Acquisition Act and that between Sheebpur Ghat and the Bengal Nagpur Railway Yard was conveyed to the Commissioners at a quit rent of Rs. 3,090-10-4.
 - (vi) Statistics of working.—Not available.

9. CUTCH STATE RAILWAY (2' 6" gauge).

This line was sanctioned for construction at the cost of His Highness the Maharaja Maha Rao Sahib of Cutch under the Government of India, Public Works Department, Notification No. 329, dated the 4th September 1903, and the Railway Board's Notification No. 86, dated the 1st June 1905, and is maintained and worked by the Cutch Durbar.

Progress in opening-

	Section	ons of	railw	ay.				Date of opening.	Miles.	Total.	GRAND TOTAL.	
		1						2	3	4	5	
Tuna to Anjar .	•		•	•	•	•	•	1-5-05	11.67			
Anjar to Bhuj						•		1-11-08	25 • 11			
Anjar to Warsamedi	•							5-1-29	3.73	36.78		
Warsamedi to Kandla	•	•	•		•		1	16-11-27*	11.64		*This was no	
Warsamedi to Bhachai	1.	•			•		• 1	14-4-31	19.85	15·37 19·85	for Passenge	
	Total	OPEN	MIL	EAGE	•		• 1	••			traffic till 5-1-2 72·00	

Details of construction -

Permanent-way.—The permanent way consists of 30-lb. flat-footed steel rails on Tuna-Bhuj and 411 on Anjar-Kandla lines on half-round teak sleepers.

Ballast.—The line is ballasted with stone and hard moorum.

Fencing.—The line is unfenced.
Curves.—The sharpest curve is of 359 feet radius.

Gradients.—The ruling gradient is 1 in 200 between Tuna and Anjar, 1 in 100 between Anjar and Bhuj and I in 150 on Anjar to Kandla line.

Contract --

Nil.—The line is owned and worked by the Cutch Durbar.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14)---

	Year.					Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and	Gross earnings.	Net earnings.	Percentage of net earnings on total capital	Earnings per mile	Proportion of expenses
					each year.	(ii) lines partly or wholly under construction.			outlay given in column (3).	per week.	to earnings.
		1			2	3	4	5	8	7	8
					Miles.	Rs.	Rs.	Rs.		Rs.	
1913-14					36.78	10,52,405	97,786	33,455	3.17	51	65.78
1914-15	•	•			36.78	10,78,861	96,976	39,054	3.62	51	59.72
1915-16		•	•	•	36.78	10,92,726	1,05,271	52,745	4.82	55	49·89 61·79
1916-17	•	•	•	•	36.78	11,31,409	92,983	35,526 9,471	3·14 0·82	49 31	83.89
1917-18	٠	•	•	•	36·78 36·78	11,43,615 11,44,318	58,800 1,19,350	55,099	4.81	62	53.83
1918-19	•	•	•	•	36.78	11,46,862	1,02,678	69,661	6.07	54	32.15
1919-20	٠	•	:	:	36.78	11,57,181	93.323	41,769	3.61	49	55.24
1920-21 1921-22	•	•	•		36.78	11,60,886	86,096	24,672	2.12	45	71.34
1922-23	•	:	:	÷	36.78	11,95,669	98,646	36,297	3.04	52	63.20
1923.24	•	:	Ċ	·	36.78	12,04,479	1,14,601	42,866	3.55	60	62.59
1924-25	Ċ		•		36.78	12,04,479	1,04,597	20,480	1.70	. 55	80.42
1925-26	· ·				36.78	12,04,937	79,000	19,100	1.58	41	75.82
1926-27					36.78	12,04,937	77,090	19,120	1.59	40	75.19
1927-28				•	36.78	14,47,903	89,991	35,013	2.42	47	61.09
1928-29					52.15	14,33,203	1,27,900	68,400	4.77	47	46·52 49·91
1929.30		•	•	•	52.15	16,45,200	1,36,800	68,500	4.17	50	53.79
1930-31			٠	•	52.15	18,17,402	1,20,741	55,789	3.07	44 38	58.96
1931-32		•	•	•	72.00	18,89,956	1,41,450	58,050	3·07 4·26	51	56.39
1932-33		•	•		72.00	19,32,616	1,89,100	82,200 59,542	3.04	45	64.46
1933 - 34	•	•	•	•	72.00	19,53,355 20,72,669	1,67,570 2,01,102	72,200	3.48	54	64.09
1934-35	٠	•	•		72.00	23,33,985	2,22,581	86,441	3.70	59	61.16
1935-36	•	•	•	٠ أ	72.00	23,67,348	2,50,072	1,03,779	4.38	67	58.50
1936-37	<u></u>	<u> </u>	<u> </u>	لنب	12 00 [20,01,010 1	2,00,012	1,00,770			9 = 0

10. DEHRI ROHTAS LIGHT RAILWAY (2' W gauge)

Managing Agents.-Messrs. Octavius Steel & Co., Ltd., Calcutta.

Date of registration of the Company.—17th March 1909.

Progress in opening -

		Section	on of t	ailua	у.			-		Date of opening.	Miles. 3	Total.
Dehri-on-Sone to Rohta-	•		•	•	•	•	•	•		6-2-11	23.83	
Rohtas to Rohtas Fort								•		1-12-27	1.68	
						 	To	TAL	•	••	••	25.51

Details of construction-

Permanent-way.—The permanent-way consists of 30-lb, and 45 lb. steel rails on sal sleepers.

Ballast.—The whole line is ballasted.

Fencing.-The line is unfonced.

Curves .- The sharpest curve is of 477 feet radius.

Gradients.—The ruling gradient is 1 in 200, uncompensated

Agreement and Local Government order-

Agreement, dated the 13th October 1907, between the District Board of Shahabad and Messrs. Octavius Steel and Company of Calculta (called "the Promoters") for and on behalf of the Dehri-Rohtas Tramway Company, scheduled to the order quoted below;

The Dehri-Rohtas Tramway Company order published under the Bengal Government, Railway Department, Notification No. 24-R., dated the 10th November 1908;

as to the construction, maintenance and working of the line Dehri-onfrom Sone to Rohtas.

Main provisions of agreement and Local Government order -

- (i) Land .- The line runs partly on Government land in charge of the Public Works Department and partly along the district road to Akbarpur. The District Board of Shahabad have granted to the Dehri-Rohtas Tramway Company in perpetuity, subject to their right of purchasing the line [as in (vi) below], the free use of so much of the side of the District Board road between Dehri and Rohtas as is necessary, but not exceeding a width of eight feet leaving a clear roadway of fourteen feet intact for ordinary wheeled traffic, for the purpose of the line, and have promoted the acquisition of any additional land required outside the boundary of the said road at the cost of the Company.
- (ii) Aid by the Local Authority.—The District Board of Shahabad will recommend and apply to the Local Government to exempt the Dehri-Rohtas Tramway Company from the tax on account of road cess, or to exact only a nominal tax, for a period of twenty-one years from the date when the line is opened for traffic, with power of renewal.
- (iii) Distribution of profits.—The profits go to the Company.
- (vi) Rates and fares.—Certain maximum rates of fares for passengers and tariff of charges for goods and the East Indian railway classification of goods, have been fixed. Full control over charges of all kinds is reserved to the Local Government.
- (v) Special obligations as to the conveyance of—
 - (a) Mails, troops, police, high Government officials and Government stores.
 - (b) Government bullion and coin, and the persons in charge thereof.—
- (iv) Power of the Local Authority to determine agreement.—Upon the expiration of 21 years, from the date of the Local Government order authorising the construction of the line, or at the end of every seven years thereafter, the District Board of Shahabad have, by giving six months' previous notice the right of purchasing the line by paying to the Company the value calculated at twenty years, purchase of the average net annual profits of the Company during the four years preceding the transaction together with a bonus of 20 per cent. thereon.
- (vii) Power of the Company to surrender agreement.-Nil.
- (viii) Term of agreement [if not determined under (iv)].—None specified.

10. DEHRI ROHTAS LIGHT RAILWAY (2' 6" gauge)—concld.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 1 to the Railway Administration Report for 1913-14.)

	Year. oj				Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	per mile per week,	Proportion of ex- penses to earning*.
		1		1	2	3	4	5	6	7	8
-					Miles.	Rs.	Rs.	Rs.		Rs.	
1913-14		_			23.83	6,15,474	1.49.861	93,912	15.25	120	37.33
1914-15					23.83	6,26,528	1,90,728	1,30,900	20.89	152	31.35
1915-16					23.83	6,27,568	2,19,432	1,48,953	23.73	176	32.11
1916-17					23.83	6,88,158	2,31,709	1,58,246	22.99	187	31.70
1917-18					23.83	6,70,323	2,18,395	1,39,039		176	
1918-19			•	. '	23.83	7,39,877	2,23,787	86,894		179	
1919-20					23.83	7,85,980	2,66,120	1,16,158		213	
1920-21		-		•	23 · 83	8,68,789	2,78,341	1,23,043		223	
1921-22			•	•	23.83	8,80,602	2,51,825			201	
1922-23					23.83		3,16,925			253	
1923-24	•			•	23.83		3,19,469	1,44,115		250	
1924-25				٠	23.83	10,17,154	3,10,354			248	
1925-26	•		•	•	23.83		3."1,657			259 264	
1926-27	•		•		23.83		3,27,593			269	
1927-28	•	•	•	•	25.51	12,30,418	3,27,779			22:	
1928-29	•	•	•	•	25.51		2,96,251			229	
1929-30	•	•	•	•	25.51	12,63,753	2,94,539			178	
1930-31	•		•	•	25.51	12,64,191	2,32,680 1,87,702			149	
1931-32	•	•	•	•	25.51		1,61,451			12	
1932-33	•	•	•	•	25·51 25·51		1,69,662			12	
1933-34	•	•	•	•	25.51		2,31,822			17	
1934-35	٠	•	•	• '	25.21		1,88,850			14	
1935-36	•	•	•	٠	25.21		1,64,629			12	
1936-37	_				1 20.01	1 10,000		. 20,00			

11. DHOLPUR-STATE RAILWAY (2' 6" gauge).

This railway was sanctioned for construction at the cost of His Highness the Maharaj Rana of Dholpur under Railway Board's Notification No. 267, dated the 14th December 1905, and is maintained and worked by the Dholpur Durbar.

Progress in opening-

Sections of railway.	. Date of opening.	Miles.	Total.	GRAND TOTAL.
Dholpur on the Midland section of the Great Indian Peninsula railway to Buri	24-2-08 15-9-13 1-7-14 10-2-17 1-3-20	19·62 8·81 7·95 15·25 3·81	55 • 44	
Under construction or sanctioned for construction. Dholpur to Rajakhera (sanctioned on 8th August 1918).		22•34	22 · 34	,
GRAND TOTAL .		••		77.78

Details of construction-

Permanent way.-

Dholpur Tantpur Section is laid with 30 lbs. new steel rail on Indian State Railway pattern Steel trough sleepers; 17 miles of Mohari Sirmuttra section are laid with 41½ lbs. Second-hand Flat-footed steel rail on sal sleepers and 2 miles with 50 lbs. flat-footed steel rails on sal sleepers.

Ballast.—The line is ballasted throughout with stone.

Fencing.—The line is not fenced.

Curves.—The radius of the sharpest curve is 1,432.5 feet.

Gradients.—The ruling gradient is 1 in 200 throughout except 1 in 100 for a very short length on Mohari-Sirmuttra section.

Contract-

Nil.- The line is owned and worked by the Dholpur Durbar.

The Mohari-Barauli section was constructed by the Imperial Delhi Committee for the carriage of stone for New Delhi and was made over to the Dholpur Durbar for working. Under a revised agreement, dated the 26th January 1927, concluded between the Government of India and the Dholpur Durbar, the Imperial Delhi Committee handed over the line free of cost to the Durbar and ceased to hold any interest in the line except as regards the flat rate at which stone is to be carried for New Delhi. This arrangement is to be in force until the whole project of New Delhi is closed.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 1 to the Railway Administration Report for 1913-14.)

Year. at end o		Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (t) lines upen, and (ii) lines partly or wholly under construction.	Gross carnings.	Net earnings.	Percentage of net earnings on total capi- tal outlay given in column (3).	Earnings per mile per week,	Proportion of expenses to earnings	
1			2	3	4	5	e continue any.	7	8
			Miles.	Rs. (Includes the Mohari-Barau	Rs. li railway fr	Rs. om 1916-17.)	This proper thin day, street	Rs.	
1913-14			28.43	10,73,930		21,722	2.02	36	60.04
1914-15			36.38	12,40,830	71,705	28,006	2.26	38	60 94
1915 16			36.38	12,42,223	87,624	30,249	2.44	46	65.48
1916-17			51 · 63	*12,41,818	1,06,000	53,767	4.33	40	49.28
1917-18		•	51 · 63	*12,92,602	1,11,334	43,911	3.40	42	60.56
1918-19			51 • 63	*13,00,262	1,17,842	43,944	3.38	41	62.71
1919-20	•	•	51 · 63	*13,39,186	1,59.314	69,893	_ 5.22	59	56.16
1920-21			51 63	*13,81,035	1,84,288	90,826	6.48	69	50.72
1921-22	•		51 · 63	*14,93,439	1,75,617	55,015	3.68	65	68 67
1922-23			51 · 63	*15,29,680	2,35,805	91,258	6.16	88	60.03
1923 24			51 · 63	*15.35,863	2,29,351	85,451	5-56	85	6: 74
1924-25			51.63	*15,36,691	2,40.998	1,07,651	7.00	90	5: •33
1925 26			51.63	*15,60,219	2,62,754	1,15,780	7.42	93	55+94
1926-27			51.63	*15,89,347	2,29,751	1,15,843	7 • 29	86	41+ 58
1927-28		•	51 63	*16,33,216	2,20,896	98,465	6.03	82	55.42
1928-29	•	-	55 • 44	*16,71,257	1.87,621	69,281	4 • 42	65	63.07
1929-30			55.44	17,13,704	2,19,254	1,08,884	6.35	76	50.34
1930-31			55.44	17,29,902	1,92,301	78,952	4.85	67	58.94
1931-32			55.44	17,38,942	1,47,912	51,748	3.16	51	65.01
1932-33			55.44	17,34,835	1,65,484	69,851	4.03	57	57.71
1933-34			55.44	17,31,329	1,61,613	66,723	4.08	56	58.71
1934-35			55.44	17,31,789	1,75,167	75,252	4.60	61	57-04
1935-36	•	•	55.44	17,40,671	1,75,193	53,635	3.26	61	69.39
1936-37	•	•	55.44	17,45,495	1,57,425	32,241	1.95	55	79.52

^{*}Excludes the expenditure incurred by the Imperial Delhi Committee on the Mohari-Barauli section prior to its opening.

12. FUTWAH-ISLAMPUR LIGHT RAILWAY (2' 6" gauge).

Managing Agents-Messes. Martin & Co., Calcufta.

Date of registration of the Company.—September 1915.

The construction of this line by the Futwah-Islampur Light Railway Company was authorised in Railway Board's telegram No. 2071-C., dated the 24th September 1915.

Progress in opening-

Section of railway.	Date of opening. Miles.	Total.
1	2 3	4
Futwah to Islampur	24-1-22 27-00	27.00

Details of construction-

Permanent-way.—The permanent-way consists of 30-lb. flat-footed steel rails laid on sal sleepers, except for 4 miles (mile 17½ to 21½) where there are steel trough sleepers.

Ballast.—The line is fully ballasted with stone and brick.

Fencing.—The line is unfenced.

Curves.—The sharpest curve has a radius of 409 feet

Gradients.—The grades are easy except at some bridge approaches where the grade is 1 in 150.

Agreement and contract-

Agreement, dated the 31st July 1912, between the District Board of Pa'na and Messrs. Martin and Company on behalf of the Futwah-Islampur Light Railway Company, as to the grant of a concession to the company of the right to construct a Light railway over that portion of the road between Futwah and Hilsa which is within the jurisdiction of the Board.

Contract, dated the 3rd September 1920, between the Secretary of State and the Futwah-Islampur Light Railway Company, as to the construction, maintenance and working of the Futwah-Islampur Light railway.

Main provisions of agreement and contract-

- (i) Land.—Provided tree by Government other than one side of the road between Futwah and Hilsa the free use of which has been granted by the District Board of Patna.
- (ii) Government aid.—If the net receipts of the Company shall not be sufficient to pay interest on the paid up capital at the rate of 3½ per cent. per annum, the Secretary of State will pay such a sum as shall together with the net receipts make up an amount equal to interest at the rate of 3½ per cent. per annum on the share capital of the Company for the time being paid up.
- (iii) Ail by the Local Authority.—The District Board of Patna will recommend to the local Government to exempt the Company from the tax on account of road cess or to exact only a nominal tax for 21 years from the date of opening of the line, with power of renewal.
- (iv) Distribution of profits.—When the net receipts shall exceed the minimum amount sufficient to pay interest on the paid up share capital at the rate of 5 per cent. per annum, half of such excess shall belong to the Secretary of State and the other half be divided equally between the Company and the District Board of Patna.
- (v) Rates and fares.—Shall be such as may, from time to time, be sanctioned by the Secretary of State and the classification of goods shall be in conformity with that from time to time in force on State railways of a similar gauge, provided that in making charges to the public within the sanctioned maxima and minima the Company shall not calculate the same otherwise than in accordance with the rates authorised and shall make no rebate or other concession which will have the effect of bringing any rate actually paid below the minima authorised.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores—; All services in connection with
 - (b) Government bullion and coin and persons in charge thereof—

 The Post Office, Army, Police and other Departments of Government shall be performed in the same manner and subject to the same regulations and conditions as are for the time being in force on State Railways of a similar gauge.
- (vii) Power of the Government to determine contract.—The Government may, by giving 12 months' previous notice 'of purchase,' determine the contract either on the 31st March 1948, or on the 31st March in the last year of any subsequent period of 10 years.

12. FUTWAH-ISLAMPUR LIGHT RAILWAY (2' 6" gauge)—concld.

Provisions of agreement and contract—concld.

The Government may also, by giving 'notice of special purchase,' determine the contract at any time in the following cases:—

- (a) When it is considered desirable to alter the gauge of the railway;
- (b) When it is considered desirable to convert the railway into a line of through communication and
- (c) When it is considered desirable to extend the railway and the Company does not provide funds for such extension.
- If the contract be determined by 'notice of purchase' the Secretary of State shall pay to the Company 25 times the amount of the average of the yearly net earnings, during the last preceding 3 years provided that the total amount so payable shall not in any case exceed by more than 20 per cent., or be less than, the total capital expenditure of the Company.
- If the contract be determined by 'notice of special purchase' the Secretary of State shall pay to the Company 25 times the average of the yearly net earnings during the last preceding 3 years or 115 per cent. of the total capital expenditure whichever may be the greater. But if such purchase shall occur within less than 3 years from the opening of the extension referred to in (c) the price shall be 115 per cent. of the total capital expenditure.
 - (viii) Power of the Company to surrender contract.—Nil.
 - (ix) Term of Contract [if not determined under (vii)].—Not specified.

Year.	Mileage open at end of each year.	Total capital outlay including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earn- ings.	Not earn- ings.	Percentage of net earnings on total capital outlay given in column (3).	Subsidy from (+) or share of surplus profit to () the Government.	Total income.	Percentage of total income on total capital outlay given in column (3).	Earn- ings per mile per week.	Pro- portion of expenses to earnings.
1	2	3	4	5	6	7	8	9	10	11
	Miles.	Rs.	Rs.	Rs.		Rs.	Rs		Rs.	
1921-22	27.00	16,13,466	18,037	4,916	0.30		4,916	0.30	67	72.74
1922-23	27.00	17,40,431	1,16,715	32,657	1.88	39,322	71,979	4.13	83	72.08
1923-24	27.00	17,96,320	1,40,392	63,516	3.53	14,370	77,886	4.33	100	54.75
1924-25	27.00	18,52,573	1,72,503	98,389	5.31	83	98,301	5.30	123	42-96
1925-26	27.00	18 90,562	1,89,246	1,06,914	5.65	3,330	1,03,584	5.47	134	43.30
1926-27	27.00	19,21,364	1,86,875	97,735	5.08	••	97,735	5.08	133	47 71
1927-28	27.00	19,46,137	1,76,657	84,310	4.33	••	84,310	4.33	125	52-27
1928-29	27.00	19,47,853	1,28,939	32,299	1.66	53,525	85,824	4.41	92	74 • 95
1929-30	27.00	19,55,972	1,56,736	60,314	3.08	25,793	86,107	4.40	111	61.52
1930-31	27.00	19,51,288	1,59,525	46,007	2.36	40,206	86,213	4.41	113	71-16
1931-32	27.00	19,46,230	1,35,791	29,244	2.80	57,672	86,916	4.47	97	78.46
1932-33	27.00	19,49,255	1,12,507	26,075	1.34	61,507	87,582	4.49	80	76.82
1933-34	27.00	19,47,937	1,17,688	29,031	1.49	54,338	83,369	4.28	84	75.34
1934-35	27.00	19,43,615	1,23,494	30,747	1.60	48,663	79,410	4.08	88	75.10
1935-36	27.00	19,50,945	1,09,037	10,043	0.51	69,050	79,093	4.05	78	90.80
1936-37	27.00	19,60,279	89,663	15,495	-0.77	+96,782	81,287	4.14	64	117.30
						j				
1	}							,		
		1							}	

13. GWALIOR LIGHT RAILWAY (2' 0" gauge).*

Progress in opening-

Sec	tions	s of	railwa	у.				Date of opening.	Miles.	Total.	Grand Total.
Gwalior-Shivpuri section-			 -						3	4	5
Gwalior to Shivpuri Gwalior Bhind section—	٠		•				•	2-12-99	74-45	74.45	<i>ر</i> و
Gwalior to Bhind			٠		:			2-12-99	51·93		
Gwalior-Sheopur-Kalan se Gwalior to Jora Alap	ur	•				٠		1-1-04	29.44	51.93	
Jora Alapur to Sabal	garh	•	•	•			•	1-12-04	26.05		
Sabalgarh to Birpur								1-11-08	19.55		
Birpur to Shoopur K	nlan		•				•	15-6-09	46-88	107.00	
Subur Morar Cantt. extension	BAN :	LIN:	ES.					1-11-24	1.65	121·92 1·65	
Gualior to Kampeo						•		29-11-25	3 · 25	3.25	-
Ujjain Agar Section— Ujjain to Agar				•		- .	•	15.3.32	41.72	41.72	
			Total	open	miles	age	•	••			294.92

Details of construction-

Permanent-way.—The permanent-way consists of 30,36 and 411 lb. flat-footed steel rails laid on steel trough sleepers and wooden sleepers.

Ballast.—The line is fully ballasted throughout with broken stone, sand and moorum.

Fencing.—The line is not fenced except in the Ujjain-Agar Branch, where pallisade wooden fencing is erected at a few places in the crowded parts of Ujjain City.

Curves .- The sharpest curve in station yards has a radius of 250 feet. The sharpest curve out of stations has a radius of 287 feet. In Ujjain-Agar Branch the sharpest curves in station yards have a radius of 220 feet. The sharpest curve out of stations has a radius of 191 feet.

Gradients.—The ruling gradient is 1 in 40 on the Gwalior-Shivpuri section, 1 in 80 on the Gwalior-Sheopur section, 1 in 150 on the Gwalior-Bhind section and 1 in 74 on the Ujjain-Agar section.

Agreement-Main provisions of agreement-

Nil. The Gwallor Light railway, including Ujjain-Agar Branch is the property of the Gwallor Durbar by whom it was constructed and is maintained, stocked and worked. The working of the trains and traffic of the G. L. Railway was under the control of the Great Indian Peninsula Railway Company up to the 30th June 1913.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14).—

					reor and in appendix	to the rep.	711101 1010	,-		
, io s a	Yе	ar.		Mileage open at end of each year.	Total capital outlay including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction	Gross earnings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earning per mile per week	Proportion of expenses to earnings.
	1	l		2	3	4	5	6	7	,
				Miles.	Rs.	Rs.	Rs		Rs.	
	1913-14 1914-15 1915-16 1916-17 1917-18 1919-20 1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27 1927-28 1928-29 1929-30 1930-31 1931-32 1932-33			249.96 249.96 249.96 249.96 249.96 249.96 249.96 249.96 249.96 249.96 251.63 253.67 253.20 253.20 253.20 254.92 294.92	69,14,991 72,26,667 74,68,981 75,67,823 75,91,801 76,54,955 77,12,221 82,79,080 79,38,319 85,60,968 88,50,281 89,81,887 92,46,259 94,88,789 96,58,772 97,46,956 98,15,722 98,26,275 98,73,766 1,21,62,694 1,21,21,952	5,14,113 5,31,203 5,85,642 5,02,685 6,57,784 7,73,596 7,37,292 7,06,583 7,58,390 8,92,662 9,19,616 10,35,727 8,47,011 7,60,335 8,22,015 9,12,414 8,23,552 6,88,992 6,90,743 7,96,782 7,78,215	2,20,130 2,16,515 2,55,475 2,80,991 3,58,162 3,94,782 3,49,179 2,61,908 4,25,333 4,62,096 5,60,113 3,57,946 2,35,623 1,91,761 3,41,831 3,19,686 1,89,722 2,16,003 2,24,231 2,39,937	3·18 3·00 3·42 3·72 4·72 5·14 4·53 3·16 4·22 4·97 5·23 6·29 3·87 2·48 1·99 3·51 - 3·26 1·93 2·19 1·84 1·98	39 41 45 43 50 50 57 54 58 69 69 63 52 52 52 51	57·18 59·25 56·38 50·06 45·56 48·96 52·04 66·92 45·92 45·92 45·92 45·92 45·92 45·92 45·92 45·93 45·93 45·94 69·01 76·67 62·54 61·18 72·46 68·73 71·89 69·17
	1934-35 1935-36 1936-37	•	•	294·92 294·92 294·92	1,22,57,769 1,22,63,237 1,23,00,244	7,25,313 7,52,810 9,51,057	1,26,726 1,95,254 3,45,422	1:03 1:59 2:80	47 40 62	82·52 74·10 63·72

Shown in Class II in the History of Indian Railways corrected up to the 31st March 1926.
 Excludes 41.72 miles of Ujjain-Agar Branch opened on 15th March 1932.

14. HOWRAH-AMTA LIGHT RAILWAY (2'0" gauge).*

Managing Agents -- Messrs. Martin & Co., Calcutta.

Date of registration of the Company.—2nd May 1895.

Running powers-

Foreign line over home line-

Howrah-Sheakhala Light railway, Telkul Ghat to Kadamtala (for passenger and goods trains)

Progress in opening-

Secti	onso	f ra	ilway	7.			Date of opening.		Miles.	Total.
		ì						2	3	
Main line-					 					
Telkul Ghât (Howrah) to Dumju	r .							1-7-97	9.20	
Dumjur to Bargachia							,	2-10-97	5.87	
Bargachia to Maju		-						4-5-98	5.50	
Maju to Amta								1-6-98	6.62	07.10
Champadanga branch—										27.19
Bargachia to Jagatbalabpur .								2-10-97	1.50	
Jagatbalabpur to Autpur .								1-6-04	8.50	,
Autpur to Champadanga .					•			24-8-08	6.68	
,										16.68
					Тотаг	٠.		••		43.87

. Details of construction-

Permanent-way.—The permanent-way consists of flat-footed steel rails, 30-lb to the yard, on cross sleepers of sal except on the lengths from Kadamtala to Bargachia which are laid with steel rails 35-lb to the yard. The length from Howrah Ghat to mile 3.29 is laid with 41\frac{1}{4} lb rails.

Ballast.—The line is ballasted throughout.

Fencing.—The line is unfenced.

Curves.—The sharpest curve, sanctioned specially for the town of Howrah, has a radius of 144 feet.

Gradients.—The line is practically level throughout, except at the approach of a bridge which has gradient of 1 in 200 for a length of 8 chains.

Agreements and Local Government orders -

Agreement, dated the 12th June 1889, between the District Board of Howrah and Messrs. Walsh, Lovet and Company on behalf of the Bengal District Road Tramways Company, as to the grant of a concession to the Company of the right to construct and work a tramway over a portion of the road within the jurisdiction of the Board.

Agreement, dated the 27th September 1889, between the Municipal Commissioners of Howrah and Messrs. Walsh, Lovett and Company on behalf of the Bengal District Road Tramways Company, as to the grant of a concession to the Tramways Company of the right to construct and work a tramway over a portion of the road within the jurisdiction of the Commissioners.

Bengal District Road Tramways Company order published under the Bengal Government, Public Works Department, Notification No. 111, dated the 26th March 1895, authorising the construction of a tramway from Howrah to Amta.

Agreement, dated the 3rd May 1897, between the District Board of Howrah and the Bengal District Road Tramways Company (Howrah-Amta), in amendment of the agreement of 12th June 1889.

Agreement, dated the 16th August 1901 (supplemental to the agreements of 1889 and 1897), between the District Board of Howrah and the Howrah-Amta Light Railway Company, as to the construction and working of an extension from Jagatbalabpur to Champadanga.

Howrah-Amta Extension order published under the Bengal Government, Railway Department, Notification No. 75-R., dated the 7th April 1902, authorising the construction of the extension from Jagatbalabpur to Champadanga.

Main provisions of agreements and Local Government orders-

- (i) Land.—Provided at the cost of Company, other than one side of portions of the road between How-rah and Amta the free use of which is authorised for the purpose of laying the line only.
- (ii) Aid by the Local Authorities.—The District Board of Howrah either exempt the Company from the tax on account of road cess, or exact only a nominal tax for a period of 21 years, with power of renewal. The Municipal Commissioners of Howrah allow the Company free use of so much of the municipal roads as is necessary for the purpose of laying the line, for a period of 20 years from the 27th March 1895; and thereafter levy a track rent of Rs. 2,000 per mile per annum.

^{*} Shown in class II in the History of Indian Railways Corrected up to 31st March 1933.

14. HOWRAH-AMTA LIGHT RAILWAY (2'0 gauge)-concld.

Main provisions of agreements and Local Government orders-concid.

- The District Board also pay to the Company, by way of interest on the capital expended, such sum of money as may be required to make the net profits of the Company equivalent to a dividend at the rate of 4 per cent. per annum, provided that the Board is not involved on this account in a greater liability than Rs. 1,100 per annum per mile constructed and opened with a maximum of Rs. 28,000 per annum.
- (iii) Distribution of profits.—Surplus profits in excess of 4 per cent., after setting aside such sums as the Directors may decide, upon the capital for the time being of the Company are divisible in equal proportions between the District Board of Howrah and the Company.
- (iv) Rates and fares.—Certain maximum rates of fares for passengers and tariff of charges for goods have been fixed. Full control over charges of all kinds is reserved to Local Government.
- (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—(b) Government bullion and coin, and the persons in charge thereof.—
- (vi) Power of the Local Authority to determine agreement.—Upon the expiration of 21 years from the date of the Local Government order authorising the construction of the line, or at the end of every 7 years thereafter, the District Board of Howrah, in conjunction with the District Board of Hooghly and the Municipality of Howrah, have, by giving 6 months' notice, the right of purchasing the line by paying to the Company its value as a dividend-earning investment, together with a bonus of 20 per cent. thereon.
- N.B .-- The local authority did not exercise their right of purchasing the line in 1923.
 - (vii) Power of the Company to surrender agreement.-Nil.
 - (viii) Term of agreement [if not determined under (vi)] .- None specified.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14.)—

						·					
Year,	each year.	Total capital outlay includ- ing suspenso, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly un- der construc- tlon.	Gross carnings.	Net earnings,	Percentage of net earnings on total capital out- lay given in column (3).	Amount credited to Renewal Reserve Account.	Shate of net profits paid to the District Board.	Total income.	Percentage of total income on total capital out- lay given in column (3).	ings per mile per week	tion of expenses to earn- ings.
1	2	3	4	Б	6	7	8	9	10	11	12
-	Miles.	Rs.	Rs.	Rs.		Rs	Rs.	Rs.		Rs.	
1913-14 1914-15 1916-16	43.87	25.61,026 26,70,739 26,87,496	5,94.343 6,13,106 6,17,537	2,69.927 2,38,783 2,60,185	10·50 8·94 9·68	65,000 20,000 22,500	47,009 51,593 60,144	1,56,918 1,67,190 1,77,541	6·20 6·22 6·67	261 269 271	54·70 61·05 57·87
1916-17 1917-18 1918-19	43·87 43·87	26,43,718 26,52,602	6,06.612 6,02,385 6,54,881	2,68,431 2,76,099 2,87,955	10·15 10·40 10·65	20,000 33,000 50,000	63,055 62,863 59,722	1,85,376 1,80,236 1,78,233	6.79	266 264 287	55·74 54·17 56·02
1919-20 1920-21 1921-22	43.87	27.61,373	7,17,767 8,54,740 8,65,826	2,67,749 3,98,963 3,38,809	9·93 14·44 11·81	30,000 1,00,000 1,00,000	62,267 86,825 61,709	1,75,482 2,12,138 1,77,100	7.68	314 382 379	62·69 53·32 60·85
1922-23 1923-24 1924-25	43.87	27,27,168	9,65,229 10,13,438 10,41,998	3,79,226 4,54,798 4,89 862	13.66 16.67 17.51	1,00,000 1,35,000 1,70,000		1,90,851 2,16,978 2,10,498	7.95	423 444 457	60·70 55·12 52·98
1925-26 1926-23 1927-28	7 43.87	29,74,663	10.74.119 10,37,977 10,69,252	5 50,394 4,99,960 3,70,235	16.87	1,70,000 1,25,000 1,60,000	1,29,236	2,83,78	1 9.23	455	48.76 51.83 65.37
1028-29 1020-30 1030-31	43.87	32,34,570	10,50,929 11,27,418 10,48,601	3,39,807 3,79,203 2,79,244	11.72	1,60,000	1,25,855	2,53,34	8, 7.83	494	66.37
1931-35 1932-35		31,84,685 31,12,508	9,89,071 9,45,303	2,30,003 2,72,561					3 6·14 6 6·90		
1933-3 1934-3			9,07,668 9,21,543						54 7.14	404	67.80
1935-3 1936-3			8,77,782 8,34,141								
_	}	ł	1	1							

15. HOWRAH-SHEAKHALA LIGHT RAILWAY (2' 0" gauge).

Managing Agents - Messrs. Martin & Co., Calcutta. Date of registration of the Company.—19th June 1895

Running powers.

Home line over foreign line-

Telkul Ghat to Kadamtala, Howrah-Amta Light railway, for passenger and goods trains, 2.08 miles.

Progress in opening-

,	Sections of railway.										Miles.	Total
,			1		•					2	3	4
Main line— Kadamtala to Chanditala Chanditala to Kistrampur Kistrampur to Sheakhala				:	•			•	•	2-8-97 10-9-97 7-11-97	8·88 3·75 4·75	17:38
Janai branch— Chanditala to Janai .		•	٠			ror		• .		5-5-98	2:37	2.37

Details of construction-

Permanent way.—The permanent-way consists of flat-footed steel rails, 30 lbs. to the yard, laid on cross sleepers of sal, with the exception of the last 7 miles which are laid with flat-footed rails weighing 35 lbs. to the yard.

Ballast.- The line is ballasted throughout.

Fencing.—The line is unfenced.

Curves.-The sharpest curve is of 144 feet radius at Howrah town.

Gradients.-The line is practically level throughout.

Agreements and Local Government order-

Agreement, dated the 12th June 1889, between the District Board of Howrah and Messrs. Walsh, Lovett and Company of Calcutta (the Promoters), for and on behalf of the Bengal District Road Tramways Company;

Agreement, dated the 16th July 1889, between the District Board of as to the grant of a concession of Hooghly and Messrs. Walsh, Lovett and Company of Calcutta (the Promoters), for and on behalf of the Bengal District Road Tramways

Agreement, dated the 27th September 1889, between the Municipal Commissioners of Howrah and Messrs. Walsh, Lovett and Company of Calcutta (the Promoters), for and on behalf of the Bengal Distric Road Tramways Company;

the right to construct, maintain and work the line from Howrah to Sheakhala.

The Bengal District Road Tramways Company order published under the Bengal Government, Public Works Department, Notification No. 112, dated the 26th March 1895, authorising the construction of the line from Howrah to Sheakhala.

Agreement, dated the 10th January 1898, between the District Board of Hooghly and the Bengal District Road Tramways Company (Howrah-Sheakhala), providing for an increase in the amount of subsidy guaranteed to be paid by the District Board.

Main provisions of agreements and Local Government order-

- (i) Land.—Provided at the cost of the Company, other than one side of portions of the road between Howrah and Sheakhala, the free use of which is authorised for the purpose of laying the line.
- (ii) Aid by the local authorities.—The District Board of Howrah, for 21 years, with power of renewal exempt the company from the tax on account of road cess, or exact only a nominal tax; and the District Board of Hooghly guarantee to make up the net profit of the Company equivalent to a dividend of 4 per cent. per annum on the capital actually paid up and expended, subject to a maximum of Rs. 950 per annum per mile of line constructed and open. The Municipal Commissioners of Howrah allow to the Company free use of so much of the Municipal roads as is necessary for the purpose of laying the line, for a period of 20 years from the 27th March 1895 and thereafter levy a tract rent of Rs. 2,000 per mile per annum.
- (iii) Distribution of profits.—Surplus profits in excess of 4 per cent., after setting aside such sums as the Directors may decide, upon the capital for the time being of the Company are divisible between the District Board of Hooghly and the Company in proportion of 3rd to the former and 3rds to the latter.

15. HOWRAH-SHEAKHALA LIGHT RAILWAY (2' 0" gauge)-concld.

Main provisions of agreements and Local Government order-concid.

- (iv) Rates and fares.—Certain maximum rates of fares for passengers and tariff of charges for goods have been fixed. Full control over charges of all kinds is reserved to the Local Government.
- (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—
 - (b) Government bullion and coin, and the persons in charge thereof .-

Not specified.

- (vi) Power of the Local authority to determine agreement.—The District Board of Howrah or that of Hooghly, each in conjunction with the other and with the Municipal Commissioners of Howrah have the right of determining the agreement and purchasing the line after 21 years from the date of the Local Government order authorising its construction or at the end of every 7 years thereafter. If purchased by the District Board of Howrah the price will be equal to the value of the whole line, plus a bonus of 20 per cent. thereon; if purchased by the District Board of Hooghly the price will be the value of the whole line, plus a bonus of 15 per cent. thereon.
- N.B.—The Local Authority did not exercise their right of purchasing the line in 1923.
 - (vii) Power of the Company to surrender agreement.—Nil.
 - (viii) Term of agreement [if not determined under (vi)] .-- None specified.

Statistics of working.—(Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14).—

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end- of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earn- ings.	Net earnings.	Percentage of net earnings on total capital outlay given in column (3).	Amount credited to Renewal Reserve Account.	Share of net profits paid to the District Board.	Total income.	Percent age of total income on total capital outlay given in column (3).	Earn- ings per milo per week.	Proportion of expenses to carnings.
1	2	3	4	5	6	7	8	9	10	11	12
	Miles.	Ka.	Rs.	Rs.		Rs.	Rs.	Rs.		Rs.	
1913.14 - 1914.15 - 1914.15 - 1915.10 - 1 1915.10 - 1 1918.10 - 1 1918.20 - 1 1922.23 - 1 1923.24 - 1 1925.26 - 1 1925.26 - 1 1926.27 - 1 1927.28 - 1 1928.29 - 1	19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75 19.75	7,18,108 8,26,846 7,70,777 7,63,637 7,63,974 7,61,802 7,64,184 7,84,410 8,16,954 8,23,958 7,88,116 7,87,327 8,09,147 8,19,865 8,24,729 8,24,729 8,24,786 8,34,737 8,38,408 8,54,924 8,36,174 8,29,369 8,26,661 8,56,062 8,63,219	1,57,837 1,56,032 1,62,490 1,61,042 1,61,947 1,75,335 1,71,991 1,76,437 1,87,602 2,15,507 2,23,244 2,22,620 2,36,904 2,24,5397 2,24,575 2,33,390 2,43,775 2,07,263 1,94,548 1,79,718 1,68,785 1,95,366 1,94,089	69,653 70,546 62,125 65,167 65,380 79,897 65,597 71,774 1,02,957 1,01,576 1,13,055 98,092 71,468 66,744 65,111 51,648 37,711 26,437 25,056 22,606 36,516 35,370	9.69 8.53 8.06 8.53 8.55 10.48 8.58 9.23 8.71 13.06 12.90 13.97 11.96 8.67 8.08 7.80 6.15 4.41 3.16 3.04 2.70 4.20	23,000 20,000 10,000 8,000 8,000 21,000 20,000 14,000 25,000 50,000 50,000 50,000 20,000 20,000 20,000 25,000 25,000 25,000 25,000 25,000 25,000 25,000 27,000 30,000	6,282 7,231 8,712 9,696 9,815 9,694 6,453 9,711 9,662 6,633 12,279 9,660 11,749 12,260 11,671 9,568 9,097 4,961 257 Nil 83 Nil 4,138 1,779	56,014 46,687 37,454 26,437 24,973 22,606 32,378	3·16 3.01 2·70 3·78	154 152 158 157 170 167 178 182 209 217 217 230 219 223 227 238 202 189 176 164 190 189	55.87 54.78 61.76 59.53 59.62 54.43 61.86 60.46 59.76 66.69 53.88 54.37 52.29 56.48 68.17 70.82 72.09 78.81 81.81 86.60 81.31 81.80

16. JAGADHRI LIGHT RAILWAY (2' 0" gauge.)

Date of registration of the Company.—27th August 1909.

Progress in opening-

Section of railway.	Date of opening. 2	, Miles.	Total4
Jagadhri station to Jagadhri town	11-8-11	3.31	3.31

Details of construction-

Permanent-way.—The permanent-way consists of 24-lb. flat-footed steel rails laid on sál and deodar sleepers.

Ballast. The line is ballasted for about a furlong in one place only.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 573 feet radius.

Gradients.—The ruling gradient is 1 in 300.

Local Government order-

The Jagadhri Light Railway Company order of 1908, published under the Punjab Government Notification No. 754, dated the 15th December 1909, as to the construction, maintenance and working of a steam tramway from Jagadhri station to Jagadhri city.

Main provisions of Local Government order—

(i) Land.—Except the portions of the District Board and provincial roads in the district of Ambala which the line is authorised to cross, all land for the purpose of the undertaking is provided at the

(ii) Government aid .- Nil.

(iii) Distribution of profits.—The whole of the profits belongs to the Company.

(iv) Rates and fares.—To be fixed from time to time by the Company with the approval of the Local Government.

(v) Special obligations as to the conveyance of-

(a) Mails, troops, police, high Government officials and Government stores.—)

(b) Government bullion and coin.-

Not specified.

(vi) Power of the Government to determine contract.—At the expiry of 21 years after first opening throughout for traffic, or at subsequent intervals of 10 years, the local authority, by giving 12 months' notice, has the right to terminate the contract and purchase the undertaking, with the previous sanction of the Local Government, by paying to the Company 25 times the yearly average net earnings of the line during the 3 years preceding the purchase with a maximum of 120 and minimum of 100 per cent. of the cost price.

! (vii) Power of the Company to surrender contract.—Nil.

(viii) Term of contract [if not determined under (vi)].—None specified.

Statistics of working.—(Those for the periods prior to 1913-14 will be found in Appendix 1 to the Railway Administration Report for 1913-14).—

Yen l	1 2		open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open, and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings. 5	Percentage of net carnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
			Miles.	Rs.	Rs.	Rs.		Rs.	
1913-14	•	•	3.31	1,14,132	25,231	3,423	2.99	147	86.43
1914-15	•	•	3.31	1,13,636	22,320	2,758	2.42	130	87.43
1915-16	•	•	3·31 3·31	1,13,226	22,713	2,156	1.90	132	90.66
1916-17	٠	•	3.31	1,12,224 1,12,224	19,593	1,068	0.95	113	94.55
1917-18 1918-19	•	•	3.31	1,12,224	17,965	1,573 326	1.40	109	91.63
1919-19	•	•	3.31	1,10,401	25,094	8,860	0.29	104	98.18
1919 20	•	•	3.31	1,11,336	29,054	13.674	8·03 12·28	146	64.66
1921-22	•	•	3.31	1,12,242	29,216	10,750	9.57	186	53.25
1922-23	•	•	3.31	1,13,765	32,186	11,034	9.70] 185] 187	63·20 65·72
1923-24	•	:	3.31	1,13,775	30,809	11,628	10.22	179	62.25
1924-25	:	•	3.31	1,13,775	31,904	12,298	10.80	185	58.31
1925-26	-	·	3.31	1,13,775	26,187	6,801	5.98	152	73.08
1926-27			3.31	1,13,775	23,352	4,216	3.71	135	81.94
1927-28		•	3.31	1,13,957	26,460	6,098	5.35	153	76.95
1928-29			3.31	1,14,314	29,335	8,919	7.80	170	69.59
1929-30			3.31	1,18,469	21,874	319	0.27	127	98.54
1930-31			3.31	1,18,051	18,258	1,177	1.00	106	93.20
1931-32			3.31	1,18,151	12,271	403	0.34	71	96.71
1932-33	•		3.31	1,18,233	12,945	2,082	1.70	75	72.69
1933-34		•	3.31	1,17,987	13,297	1,359	1 1.15	78	89.78
1934-35	•		3.31	1,13,157	13,485	1,154	1.02	79	91.44
1935-36	•	•	3.31	1,13,315	12,489	35	0.03	73	99.72
1936-37	٠		3.31	1,12,844	17,290	3,434	3.04	100	80.14

17 * JESSORE-JHENIDAH RAILWAY (2' 6" gauge).

Managing Agent.-Mr. B. C. Roy, Calcutta.

Date of registration of the Company .- 4th August 1924.

The sancue accorded by the Government of Bengal to the construction of this line under the Indian Railways Act, 1X of 1890, was approved by the Government of India in their letter No. 275-R.P., dated the 2nd December 1910

The line was constructed by the Jessore-Jhenidah Railway Company which went into liquidation and the assets of the railway were purchased as a going concern by the Jhenidah Railway Syndicate, Limited, on the 24th September 1924.

Progress in opening-

Sect	ions of rai	lway.				Date of opening.	Miles	Total.
	1		 	 	 	2	3	4
Main line— Jessore to Jhenidah		•			٠	1-10-13	29 -00	
ranch— Shibnagar to Kotchandpur		•			٠	1-10-13	7 - 75	
				TOTAL			••	36.1

Details of construction-

Permanent-way.—The permanent-way consists of 30-lb. flat-footed steel rails laid chiefly on sall sleepers. Ballast.—The line is ballasted throughout with brick.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 313 feet radius.

Gradients.-The ruling gradient is 1 in 150.

Contract and agreement-

Contract dated the 14th January 1930, between the Secretary of State and the Jhenidah Radway Syndicate, as to the construction, maintenance and working of the line.

Agreement, dated the 6th December 1924, between the District Board of Jessore and the Jhendah Railway Syndicate, as to the grant of certain concessions to the latter by the former under certain conditions.

Main provisions of contract and agreement-

- (i) Land.—Land on one side of the District Board road not exceeding 8 feet in width granted free, any additional land being acquired by Government at the cost of the Company.
- (ii) Aid by the District Board.—The District Board of Jessore have lent to the Syndicate Rs. 1,00,000 repayable by the latter in sixteen equal yearly instalments without interest. The Board will recommend and apply to the Local Government for the exemption of the Company from road cess, or for the levy of only a nominal tax for a period of 21 years from the date of opening of the line for traffic.
- (iii) Distribution of profits.—Net profits, if any, for each year are distributable amongst the Members of the Syndicate.
- (iv) Rates and fares.—Rates and fares shall be such as may from time to t me be arranged by the Secretary of State and the classification of goods shall be in conformity with that in force on State railways of the same gauge.
- (v) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores.—

(b) Government bullion and coin, and the persons in charge thereof.—

To be conveyed in the same manner and subject to the same regulations and conditions as are in force on State railways of the same gauge.

- (vi) Power of the Government to determine contract.—The Government may, by giving 12 months previous' notice of purchase', determine the contract either on the 31st March 1943, or on the 31st December in the last year of any subsequent period of 10 years, paying to the Company a sum equal to the Capital expenditure of the railway since the 25th September 1924 plus Rs. 10,00,000. The money payable shall carry interest at the rate of 3 per cent. per annum from the time the contract terminates up to the time of payment by the Secretary of State.
- The Government may also, by giving 'notice of special purchase', determine the contract at any time in the following cases:—
 - (a) when it is considered desirable to alter the gauge of the railway;
 - (5) when it is considered desirable to convert the railway into a line of through communication and

17. JESSORE-JHENIDAH RAILWAY (2' 6" gauge)—concld.

Main provisions of contract and agreement-concld.

- (c) when it is considered desirable to extend the railway (without altering the gauge or making the line part of a through route) and the Company is unable or unwilling to provide funds for such extension.
- If the contract be determined by 'notice of special purchase 'the Government will pay to the Company a sum equal to the capital expenditure of the railway since the 25th September 1924 plus Rs. 10,00,000 plus 15 per cent. on the sum of these two amounts. The money payable shall carry interest at the rate of 3 per cent. per annum from the time the contract terminates up to the time of payment.
- (vii) Power of the Company to surrender contract.—Nil.
- (viii) Term of Contract [if not determined under (vi)] .- Not specified.

Year.	Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.c., outlay on (i) lines open and (ii) lines partly or wholly under con- struction,	Gross earn- ings.	Net earnings.	Percentage of net earn- ings on total capital outlay given in column (3).	Subsidy from, (+) or share of net profits to, (-), the District Board.	Total income [column 5 + ar— column 7].	Percentage of total income on total capital outlay given in column (3).	Earn- ings per milè per week.	Pro- portion of expenses to earn- ings.
1	2	3	4	4,	6	7	8	9	10	.11
	Miles.	Rs.	Rs.	Rs.		Rs.	Rs.		Rs.	
1913-14.	36.80	12,36,610	49,667	12,345	0.98	••	12,345	0.98	52	75.55
1914-15.	36.80	12,49,383	77,508	16,468	••	**	••		40	121-25
1915-16.	36.80	12,80,742	94,740	-40,038		**			49	142.26
1916-17.	36.80	13,49,378	1,10,698	-32,470	.,	**	••		58	129.34
1917-18 .	36.75	13,96,544	88,775	55,760	••	+53,000	-2,760		46	162.81
1918-19 .	36.75	14,37,683	1,03,283	-26,716	•• .	+50,000	+23,284	1.62	54	125.86
1919-20 .	36.75	14,33,393	1,43,448	21,061	1.47	+34,000	+55,061	3.84	75	85.32
1920-21 .	36.75	14,47,252	1,56,731	3,010	0.21	+17,000	+20,010	1.38	81	98.08
1921-22 .	36.75	14.48,314	1,40,450	18,860		†.	18,860		73	113.43
1922-23 .	36.75	14,48,961	1,27,492	-43,763		†	-43,763		67	134 · 32
1923-24 .	36.75	14,32,495	1,27,761	9,485	0.66	Ť	9,485	0.66	67	92.58
1924-25 .	36.75	14,28,730	1,05,913	17,305	1.21	••	17,305	1.21	55	83.66
1925-26 .	36.75	14,53,032	1,49,259	57,C 6 9	3.92	• •	57,069	3.92	78	61.90
1926-27.	36 · 75	14,74,526	1,42,408	39,986	2.71	••	39,986	2.71	74	71.92
1927-28 .	36.75	14,85,833	1,22,576	20,042	1.34	••	20,042	1.34	64	83.64
1928-29	36.75	14,99,200	1,12,410	8,022	0.54		8,022	0.54	59	92-86
1929-30 .	36.75	‡ 12,84,315	1,07,997	—7, 300	-0.57		—7, 300	-0.57	57	106-47
1930-31 .	36.75	(a)12,73,758	73,769	12,398	-1.02		12,398	-1.02	38	117.81
1931-32.	36.75	12,63,000	62,000	16,000	-1.25		16,000	-1.25	32	125 • 43
1932-33 .	* }	*	*	*	* from 1st May		*	*	*	•

^{*}The line has been closed from 1st April 1933. Figures for 1932-33 are not available.

[†]Payment of subsidy suspended by the District Board.

[In accordance with agreement dated the 14th January 1930 with the Secretary of State.

[a) The reductions as compared with the previous year are due to credits to final heads and increase in the credit balance under the suspense head.

**Adjusted in subsequent years.

18. JORHAT (PROVINCIAL) RAILWAY (2' 0" gauge).

This line was originally known as the "Kokila Mookh tramway" or the "Kokila Mookh State railway" Its construction out of the Provincial revenues of Assam, for the convenience of the numerous tea-gardens in the neighbourhood of Jorhat, was approved by the Government of India in their letter No. 621-R.C., dated the 11th August 1882.

The line together with rolling stock is owned and was upto 30th September 1927 worked by the State. From 1st October 1927, the maintenance, management and working of the line have been made over to Messrs. Macneill and Co., Agents, River Steam Navigation Co., Ltd., and Messrs. Kilburn & Co., Managing Agents, India General Navigation and Railway Co., Ltd.

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.	Grand total. ō
Main line— Borghop to Gosaigaon . Gosaigaon to Jorhat . Jorhat to Dhali river . Dhali river to Titabar .	22-10-01 13-9-83 15-12-84 16-7-87	4·75 7·00 9·50 1·75	23.00	
Cold weather line— Borghop to a point further down the river	3-12-11	2.50	2.50	
Chenimara Junction to Mariani	1-12-86	7.00	7.00	32.50

Details of construction-

Permanent-way.—2.51 miles between Jorhat and Gosaigaon are laid with steel rails, 30-lb. to the yard. Four miles, between Jorhat and Cinnamara, 7 miles, between Cinnamara and Mariani, 6.50 miles, between Cinnamara and Titabar, and 4.00 miles, between Jorhat and Gosaigaon, about three-fourth mile, between Borigaon and Gosaigaon, 4.74 miles, between Gosaigaon and Kokilamukh the alternative cold weather section across Gosaigaon channel and 0.06 mile of the Jorhat Putty siding are laid with steel rails, 25-lbs. to the yard. One and a half miles, between Cinnamara and Titabar are laid with steel rails, 24-lb. to the yard. The rest of the line is laid with steel rails, 18-lb. to the yard.

Ballast .- The line is unballasted.

Fencing.—The line is not fenced.

Curves .- The sharpest curve is of 480 feet radius.

Gradients.—The ruling gradient is about 1 in 800, except on the Jorhat-Chenimura section where it is 1 in 400.

Agreement—

Dated the 21st September 1927 between the Secretary of State and the River Steam Navigation Company, Limited, and the India General Navigation and Railway Co., Ltd., as to the working of the line.

Main provisions of Agreement-

- (i) Distribution of profits.—The Companies are to retain 50% of the net profits of the working of the Railway and the balance is to be paid to Government. In case of loss the Companies are to bear the whole of such loss. The net profits shall be the balance of gross receipts as derived from all tolls, fares, rates and charges and other sources of revenue of every kind arising in respect of the working of the Railway and incidental thereto after deduction thereout of all expenditure and outgoings and a monthly allowance of Rs. 500 towards the expenses of the Companies' Calcutta establishment and Local Steamer Agents' establishments in connection with the administration of the Railway.
- (ii) Rates and fares.—As fixed by the tariffs of the Railway as in existence at the date of taking over in so far as the same are found to yield a reasonable return.
- (iii) Special obligations .- Nil.
- (iv) Powers of the Government to determine agreement.—The agreement will be in force for 10 years from 1st October 1927, and on the expiry of such period if it is decided to renew the agreement for a further term the Companies shall have the first offer. On the Secretary of State taking over the Railway the Companies to be paid the excess in value, if any, of the properties so taken over as compared with the value of the properties (other than land) made over to the Companies at the commencement of the agreement.
- (v) Powers of the Company to terminate agreement.—Nil.
- (vi) Term of agreement.-10 years.

18. JORHAT (PROVINCIAL) RAILWAY (2' 0" gauge)-concld.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Raliway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14).

Year.	Milenge open at end of each year.	Total capital out- lay, including sus- pense, to end of each year, i.e., outlay on (i) line+ open and (ii) lines partly or wholly under construction.	Gross carnings.	Not earnings.	Percentage of net earnings on total capital outlay given in colurns (3).	In- terest.	Gain or loss to the State pertaining to each year.	Lam- incs Jer mile Per week.	Proportion of expenses to carnings,
1	2	3	4	6	G.	7	5	b	10
	Milce.	Ra.	\mathbf{R}^{q} .	R*.		Re.	Ra,	Rn,	
1013-14	32-50 32-50 32-50 32-50 32-50 32-50 32-50 32-50 32-50 32-50 32-50 32-50	10,64,659 10,71,745 10,00,695 11,23,755 11,12,262 10,91,312 11,19,392 11,41,093 12,84,135 12,78,210 12,60,456 13,18,220 13,19,922 13,25,479 13,22,106	1,30,055 1,21,620 1,60,652 1,64,605 1,42,055 1,13,273 1,26,047 1,31,611 1,60,655 1,76,392 1,60,138 1,67,920 1,98,877 2,10,079 2,01,000†	30,846 -6,352 64,700 63,178 23,438 -6,014 6,712 -16,037 -29,169 -33,270 -28,061 26,052 - 7,6-7 -6,000†	0.74 6.64 6.62 2.11 0.51	35,717 37,362 37,645 36,499 36,828 37,261 37,761 45,093 47,620 65,143* 48,631 47,369	4 4,129 +43,734 +17,245 +26,679 -16,679 -46,376 -31,459 -63,741 -71,049 -79,272 -74,311 -35,451 -50,547 -63,953	575 H L 55 S 5 R 10 C 10 11 12 C 10 C 10 C 10 C 10 C 10	00-30 105-20 64-97 61-82 83-80 107-05 93-47 111-85 119-97 115-91 155-81 163-82 102-90
1027-28 1028-20‡ 1029-30 1030-31 1031-32 1032-33 1033-31 1034-35 1035-36 1036-37	32.60 32.60 32.60 32.60 32.60 32.60 32.60 32.60 32.60	13,22,106 13,22,004 13,22,000 13,22,001 13,22,071 13,22,070 13,22,070 13,22,070 13,22,070	2,01,0007 2,12,214 2,04,763 1,70,865 1,46,748 1,39,788 1,00,449 1,10,813 1,27,303 1,12,864	-0,0001 -142 -2,347 -152 -2,227 -21,721 -40,659 -18,161 -21,111 -36,337		47,369 47,284 5 49,762 49,762	-63,360 -47,264 \$ -40,762 \$ \$ \$	119 126 121 106 87 87 71 75	102-09 100-21 101-15 100-82 101-62 115-64 140-43 115-15 116-82

^{*}Including indirect charges of Rs. 18,255.

The figures are approximate.

Figures are in respect of calendar year 1928.

Figures not available.

19. KALIGHAT-FALTA RAILWAY (2' 6" gauge).

Managing Agents.-Messrs. McLeod & Co., Calcutta.

Date of registration of the Company .- April 1915.

The construction of this line by the Kalighat-Falta Railway Company was authorised in Railway Board's telegram No. 34-P. dated the 26th April 1915.

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total,
		3	4
Gholeshapur (near Kalighat) to Falta	28-5-17 1-5-20	25÷34 0•91	
TOTAL		••	26•25

Details of construction-

Permanent-way.—The permanent-way consists of 35-lb. flat-footed rails on sal sleepers.

Ballast.—The line is ballasted with brick throughout.

Fencing.—The line is unfenced except between Thakurpukur and Gholeshapur mile 22 to mile 25t.

Curves.-The sharpest curve is of 573 feet radius.

Gradients.-The ruling gradient is 1 in 200

Contract-

Dated the 13th December 1921, between the Secretary of State and the Kalighat-Falta Railway Company, Limited, as to the construction, maintenance and working of the line.

Main provisions of contract-

- (i) Land.—Provided by Government free of cost to the Company.
- (ii) Government aid.—When the net receipts shall not be sufficient to pay interest at the rate of 3½ per cent. per annum on the paid-up share capital, the Secretary of State shall pay to the Company a sum which together with the net receipts will make up an amount equal to 3½ per cent.
- (iii) Distribution of profits.—When the net receipts in any year exceed 5 per cent. on the paid-up share capital such excess shall be divided equally between the Secretary of State and the Company. When the net receipts for any year do not exceed 5 per cent. per annum on the paid-up share capital the whole of such net receipts shall belong to the Company.
- (iv) Rates and fares.—Rates and fares shall be such as may from time to time be sanctioned by the Secretary of State and the classification of goods shall be in conformity with that from time to time in force on State railways of a similar gauge.
- (v) Special obligations as to the conveyance of troops, police, etc.—To be conveyed in the same manner and subject to the same regulations and conditions as are in force on State railways of a similar gauge.
- (vi) Power of Government to determine contract.—The Secretary of State may at any time, by giving six months' notice, assume the working of the railway by State or any other agency, if the Company are guilty of any breach of contract, or gross mismanagement, or if the working expenses have exceeded the gross earnings for three consecutive years.
- The Secretary of State may, by giving 12 months' previous "notice of purchase", determine the contract either on the 31st March 1947 or on the 31st March in the last year of any subsequent period of ten years, paying to the Company a sum of money equal to 25 times the amount of the average of the yearly net earnings during the 3 years immediately preceding, but the amount so payable shall not exceed by more than 20 per cent. the total capital expenditure or be less than such capital expenditure.

The Secretary of State may also, by giving 12 months' previous "notice of special purchase", determine the contract at any time in the following cases:—

- (a) When it is considered desirable that the gauge of the railway should be altered.
- (b) When it is desired to convert the railway into a line of through communication.
- (c) When it is desired to extend the railway and the Company does not, within six months from date of formal requisition, raise such additional capital.
- If the Contract is determined by "notice of special purchase" the Secretary of State shall pay the Company 25 times the average of yearly net earnings during the 3 years immediately preceding or 115 per cent. of the total capital expenditure whichever may be greater.
- (vii) Power of the Company to surrender contract.-Nil.
- (viii) Term of contract.—Shall remain in force until determined under (vi) above.

19. KALIGHAT-FALTA RAILWAY (2' 6" gauge)—concld.

		• ••								
Year.	Mileage open at end of each year.	Total capital out- lay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	Percentage of not earnings on total capital outlay given in column (3).	Amount on account of interest recoverable from, (+), or moiety of profits payable to, (-), the Secretary of State.	Total income (column 5+ column 7).	Percentage of total income on total capital outlay given in column (3).	Earn- ings per mile per week.	Proportion of expenses to earnings.
1	2	3	4	5	6	7	8	9	10	11
1917-18.	Miles. 25 · 33	Rs. 17,36,978	Rs. 88,697	Rs. 20,146	1.16	Rs.	Rs. 20,146	1.16	Rs. 80	77 • 28
1918-19.	25.33	17,59,839	1,88,536	69,662	3.96		69,662	3.96	143	63 • 05
1919-20 .	25.33	18,09,312	2,20,070	91,338	5.05		01,338	5.02	167	58 • 49
1920-21.	26 · 25	18,42,607	2,50,703	97,621	5.30	5,243	92,378	5.01	184	61 - 08
1921-22.	26.25	18,58,060	3,02,607	1,15,649	6.22	13,970	1,01,679	5.47	222	61.76
1922-23 .	26 · 25	19,19,552	3,28,092	89,317	4.65	٠,	89,317	4 • 65	240	72.77
1923-24 .	26.25	19,78,658	3,37,925	1,18,852	6.01	13,600	1,05,252	5.32	248	64-83
1924-25	26.25	20,11,752	3,55,673	1,27,311	G 23	16,017	1,11,294	5.53	260	64.21
1925-26 .	26.25	21,53,341	2,80,402	41,077	1.91	+39,198	80,575	3.71	210	85.66
1926-27.	26.25	22,85,347	2,42,696	5,177	0.23	+84,728	89,905	3.03	178	97.87
1927-28.	26.25	22,79,254	2,88,490	46,637	2.05	+44,405	, 91,042	3.99	211	83.83
1928-29.	26.25	22,90,965	3,13,758	77,115	3.37	+9,974	87,089	3.80	230	75.42
1929-30.	26.25	23,59,615	2,86,248	38,321	1.62	+49,832	88,153	3.74	210	86-61
1930-31.	26.25	24,33,289	2,46,721	1,503	0.08	82,999	84,502	3.47	181	99-39
1931-32 .	26.25	24,30,984	2,44,708	41,677	1.71	43,936	85,613	3.52	179	82.97
1932-33.	26.25	24,21,857	1,86,981	9,344	0.39	74,400	83,744	3.46	137	95•00
1933-34 .	26.25	24,16,799	1,75,724	1,819	0.08	82,045	83,864	3.47	129	98-97
1934-35 . 1935-36 . 1936-37 .	26·25 26·25 26·25	24,12,818 24,13,261 24,17,818	1,54,866 1,51,113 1,59,993	6,599 7,296 12,563	-0.25 -0.29 0.52	90,802 88,439 68,534	84,263 81,143 81,097	3·49 3·36 3·35	113 111 117	104·26 104·83 92·15

20. KULASEKARAPATNAM LIGHT RAILWAY (2' 0" gauge).

Managing Agents.-Messrs. Parry & Co.. Madras.

This line in the Tinnevelly dist ict was originally constructed for the sole use of the East India Distillaries and Sugar Factories (Limited) of Madras. Its maintenance and use for public traffic were authorised in Madras Government Orders No. 1134-L., dated the 19th June 1914 and No. 634-A.L., dated the 10th May 1918, subsequently superseded by order No. 27 L. and M., dated the 4th January 1922 and G. O. No. 745-Ry. Mis., dated 1st March 1929 and G. O. No. Mis. 2916, Ry., dated the 18th October 1929.

Progress in opening-

Sections of railway.	Date of opening.	Miles.	Total.
1	2	3	4
Kulasekarapatnam to Tissian villai	18-7-15	16.50	
Kulasekarapatnam Sugar factory to Tiruchendur	1-8-22	6.05	
Extension at Tiruchendur to the station yard of Tunevelly-Tiruchendur	11-4-23	1.00	
Ry. Kulasekarajatnam Central Station to Udangudi	6-3-29	3.00	23·75 3·00
Kulasekarapatnam Port to Manapad	1-10-29	0.75	0.75
Less-Kulasekarapatnam Port to Manapad closed for traffic on and from 1st June 1932.		••	0.75
Total open mileage			26.75

Details of construction ---

Permanent-way.—The whole of the permanent-way consists of flat-footed steel rails 20 lb. to the yard laid on wooden sleepers.

Bullast.—The line is ballasted with sand.

Fencing.—The line is unfenced.

Curves .- The sharpest curve has a radius of 172 feet.

Gradients.—The ruling gradient is 1 in 100.

Local Government Order -

Madras Government, Local self-Government Department, Order No. 27-L. and M., dated the 4th January 1922, authorising the construction, maintenance and working for public traffic of the line from Tissianvillai to Tiruchendur viâ Kulasekarapatnam and G. O. No. 745-Ry. Mis., dated 1st March 1929 and G. O. No. Mis. 2746-Ry., dated 18th October 1929 authorising the Branch lines from central station to Udangudi and from Kulasekarapatnam Port to Manapad respectively for public traffic.

Main provisions of Local Government order-

- (i) Land.—Private lands on Tissianvilai and Udangudi sections have been acquired through Government and those on the section between Kulasekarapatnam Port and Tiruchendur taken on lease and Government and in all the sections on an annual rental of Rs. 10 per mile.
- (ii) Government aid .- Nil.
- (iii) Rates and fares.—The promoters shall not, without the prior sanction of Government, charge higher rates for traffic than the following:—

Rate for passenger .. Six pies each per mile.

Rate for goods . $\begin{cases} 2 \text{ pies per maund per mile in truck loads.} \\ 3 \text{ pies per maund per mile in smaller loads.} \end{cases}$

- (iv) Special obligations as to the conveyance of -
 - (a) Mails, troops, police, high Government officials and Government stores.
 (b) Government bullion and coin, and the persons in charge thereof.—

 Nil.
- (v) Power of purchase by the Local Authority.—Any time after 50 years from the dute of the order the Tinnevelly District Board may purchase the line by paying to the promoters twenty-five times the average annual net earnings of the line for the last 5 completed years previous to the date of purchase, subject to a minimum of 100 and a maximum of 125 per cent. of the capital outlay. As regards the section from Factory to Tiruchendur, the promoters shall at any time that the District Board may extend their line from Tiruchendur to Kulasekarapatnam, be permitted to remove that section of the line.
- (vi) Power of purchase by Government.—The Government also may purchase the line for twenty-five times the average net earnings of the previous 3 years, subject to a minimum of 100 and a maximum of 120 per cent. of the actual capital outlay, if, at any time, the line be connected with a railway and the proprietors fail to bring the line up to the standard required by the Indian Railways Act.

20. KULASEKARAPATNAM LIGHT RAILWAY (2' 0" gauge-concld.

Year.		Mileage open at end of each year.	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction	Gross earnings.	Not earnings.	Percentage of net earnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1		2	3	4	5	G	7	8
		Miles.	Rs.	Rs.	Rs		Re.	
1915-16		18.00	2,86,260	17,630	5,141	2.02	19	70-64
1916-17		18.00	2,98,045	79,893	47,150	15.82	85	40-98
1917-18		18.00	3,46,325	32,043	-5,052		34	115.76
1918-19		32.00	5,66,837	41,602	-19,430		35	146.70
1919-20	•	32.00	5 84.918	50,369	-41,415	••	30	182-22
1920-21		32.00	6,25,278	73,799	-56,100		44	176.02
1921-22	•	18.00	6,43,677	66,484	-44,217	į	49	166.30
1922-23		24 • 25	7,17,553	65,045	-55,277	••	56	184-98
1923-24		25.25	7,59,271	62,839	-21,714		49	134.55
1924-25	•	25.25	7 57,688	70,548	-2,650		54	103.75
1925-26		25.25	7,67,275	72,908	9,030	1.18	55	87.60 .
1926-27		25•25	7,72,876	70,059	-31,605		53	145-11
1927-28		25-25	7,81,924	87,650	11,546	1.47	60	86.82
1928-29		26.75	8,24,760	94,714	14,190	1.72	73	85.02
1929-30	•	27.50	8,33,242	1,28,555	42,137	5.05	90	67.22
1930-31		27.50	5,45,181	1,30,430	31,681	5.81	91	75.71
1931-32		27.50	5,21,679	1,14,131	19,306	3.70	79	83 09
1932-33		26.75	5,40,898	1,09,826	20,557	3.80	78	81.28
1933-34		26.75	5,49,389	92,419	6,481	1.18	66	92.99
1934-35		26.75	5,54,656	73,657	-2,685	-0.48	53	103-64
1935-36	.	26.75	5,54,295	69,953	1,089	0.10	50	98.44
1936-37	٠	26 75	4,91,153	64,158	56,907	-11.58	46	188-69

MADRAS PORT TRUST RAILWAY (Mixed Gauge 5' 6" and 3' 33").

The Madras Port Trust Railway consists of 17·17 miles of mixed gauge railway (5 feet 6 inches and 3 feet 3\frac{3}{2} inches) of which only 1·70 miles have been passed by the Government Inspector of Railways for the carriage of passengers. The railway is connected with the Madras and Southern Mahratta Railway Co., Ltd., at Royapuram (broad-gauge) and the South Indian Railway Co., Ltd., (metre-gauge section) at Madras Beach Station. The Railway is used for receiving, delivering, transporting, booking and despatching only such goods and for carrying only such passengers as enter or leave the Trust's premises by sea and this has been publicly notified.

The Railway was gradually brought into being for the better performance of the services which the Trust, purely as a Port Trust, is enabled, under its act, to perform for the public within its premises. Up to the 1st November 1916 the duty of delivering incoming goods to consignees and the duty of booking outgoing goods from the Harbour were performed by the neighbouring Madras and Southern Mahratta or South Indian Railway as the case might be. These Railways were provided by the Trust with sufficient accommodation in its premises to carry on their business without the intervention of the Trust. The trust confined itself to the haulage, loading and unloading, of wagons within its premises on behalf of the Railways, while the latter collected from owners on the Trust's behalf the charges levied by the Trust for such services.

Since the 1st November 1916 the booking and delivery of rail-borne goods within the Trust's premises are being carried out by the Trust instead of by the Railways under suitable working agreements.

DETAILS OF CONSTRUCTION.

Permanent-way.—The Permanent-way consists of 75 lb. standard F. F. rails, laid down on either reinforced concrete or timber sleepers, but on revetment tracks 90 lb. section rails are used as these rails are exposed to salt spray.

Ballast.—The line is ballasted with sand.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is 400 feet radius.

Gradients.—The line is practically level throughout.

Ownership.—The line is owned and worked by the Madras Port Trust.

Statistics of working.

Year.			Mileage open at end of each year. (b)	Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings. (a) 4	Net earnings. (a) 5	Percentage of net earnings on total capital outlay given in column (3). (c)	Earnings per mile per week. (d) 7	Proportions of expenses to earning. (a) 8
			Miles.	Rs.	Rs.	Rs.		Rs.	
1010 14				1.3.		••			
1913-14	•	•	••			• •			••
1914-15 1915-16	•	•	::	<u>; </u>			• • •	l	•••
1916-16	•	•	••			••	••		
1917-18	•	•	::		1,30,008	-41,299			131.77
1917-10	•	•			1,43,474	-64,868	••		145.21
1919-20	•				2,65,689	70,875	••		126.68
1919-20	•		•••	10,10,410	2,74,240	— 73,451	••		126.78
1920-21	•		••	16,10,658	2,79,561	92,353	•••	••	133.04
1921-22	:		••	16,10,658	3,40,352	—47,872	• • •	•••	114.07
1922-23		-	•••	20,65,025	3,53,263	63,798			118.06
1923-24	•	•		21,63,390	3,97,373	19,515		••	104.91
1924-25	•	•		21,75,950	3,93,466	-1,59,795			140.61
1925-20	•	•		22,71,004	4,16,085	-1,51,373	•••		136.38
1920-21	•	•		22,87,342	5,03,069	-1,45,442			128.91
1927-20	•			24,74,130	5,67,421	-1,55,135			127.34
1929-30	•	-	i8	25,02,014	5,45,524	-1,12,767	••	582.82	120.67
	•	•	18.00	28,08,202	4,93,472	-2,46,352	••	527.21	149.92
[930-31	•	•	18.18	30,44,592	4,46,923	-\$2,08,213	•••	470.17	146.59
1931-32	•	•	17.92	30,44,686	3,21,728	2,62,843	••	344.31	181.70
1932-33	•	•	17.81	30,44,686	3,39,647	-1,68,846		366.74	149.71
1933-34	•	•	17.53	30,44,686	3,33,534	83,840		365.89	125.14
1934-35	•	•	17.28	30,44,686	2,83,643	98,606		315.66	134.76
1935-36	•	•	17.17	30,44,686	3,22,981	94,085	<u> </u>	361.75	129.13
1936-37	• -	•	,						

⁽a) The figures are available only from 1917-18, the year in which the Madras Port Trust Railway became a member of the Indian Railway Conference Association.

⁽b) Statistics have not been maintained for each year's length of construction. The total mileage at the end of 1929-30 is about

⁽c) This Railway has been working at a loss, its main earnings being only the harbour terminal charges. Hence the percentage in this column has not been filled up.

⁽d) As the mileage open for each year is not available for the years previous to 1929-30, the figures for 1929-30 and subsequent years only are given.

21. MATHERAN LIGHT RAILWAY (2' 0" gauge).

Agents.—Board of Directors, Matheran Steam Tramway Co., Ltd., Bombay.

F. E. Dinshaw, Esq., Chairman.

A. H. Wadia, Esq., Director.

S. L. Panday, Esq., Managing Director.

Khan Bahadur R. Pestonji, Manager and Chief Engineer, Neral.

Date of registration of the Company.—16th September 1908.

Progress in opening-

	Se	eticn of 1	railway.					Date of opening.	Miles.	Total.
Neral to Matheran	••			••	••	••		22-3-07	12.61	12.61

Details of construction -

Permanent-way.—The permanent-way consists of 30-lb. flat-footed steel rails laid on half-round teak and other wood sleepers.

Ballast .- Broken stone.

Fencing .- Not fenced.

Curves.—The sharpest curve is of 60 feet radius.

Gradients.-The Ruling gradient is 1 in 20 compensated.

Local Government Order and Agreement-

The Matheran Tramway order published under the Bombay Government, Public Works Department (Railway), Notification No. 34, dated the 28th July 1904, authorising the construction, maintenance and working of the line by the Promoter.

Further order No. 15 of 23rd April 1907 published in the Bombay Government Gazette (Railways).

Further order No. 47 of 19th November 1907 published in the Bombay Government Gazette (Railways). Letter No. 30, dated the 11th January 1908, from the Secretary to the Government of Bombay, Public Works Department (Railway Branch), to the Promoter, Matheran Light railway.

Letter No. 6-Ry., dated the 13th July 1910, from the Secretary to the Government of Bombay (Railway Branch), permitting to use Petrol motive power.

Further order No. 1434-Ry., dated the 2nd September 1914, published in the Bombay Government Gazette.

Further order No. 297-Ry., dated the 21st Febrauary 1920, published in the Bombay Government Gazette.

Further order No. 2485-Ry., dated the 30th May 1923 published in the Bombay Government Gazette.

Further order No. 12/27, dated the 8th March 1928 published in the Bombay Government Gazette.

Agreement, dated the 12th August 1918 (in supersession of the agreement of 30th October 1909) between the Matheran Steam Light Tramway Company and the Great Indian Peninsula Railway Company, as to the control of traffic and working, by the latter of the line with effect from the 1st April 1915. This agreement has been terminated with effect from the 31st March 1926.

Main provisions of Local Government Order and Agreement-

- (i) Land.—Government land was provided free of cost. Private land to be acquired by the Government at the expense of the Tramway Company whose property it is.
- (ii) Government aid.—With effect from 1st April 1929 the Matheran Steam Tramway Company have been allowed a rebate of 20 per cent. of the gross earnings of the Great Indian Peninsula Railway from interchanged traffic, subject to withdrawal by either side on one year's notice and limited to the total net earnings from such traffic.
- (iii) Terms of working.—The line was worked by the Great Indian Peninsula Railway under the agreements, dated 30th October 1909 and 12th August 1918, up to 31st March 1926, when its working was taken over by the Matheran Steam Tramway Company whose property it is.
- (iv) Distribution of profits.—The whole of the profits belong to the Tramway Company.
- (v) Rates and fares.—To be within the schedule of maxima and minima rates sanctioned by Government in the Tramway Order of 1904 as amended by subsequent further orders.
- (vi) Special obligations as to the conveyance of-
 - (a) Mails, troops, police, high Government officials and Government stores—
 (b) Government bullion and coin, and the persons in charge thereof—
- (vii) Term of agreement.—Government may purchase the line as a going concern on the 1st January 1940, or at the expiration of any subsequent period of five years, for a sum representing the aggregate of 25 times the average of its net earnings for the three calendar years immediately preceding the date of purchase.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 39 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14.)—

Year.	year.	Total Capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings.	of net earnings on total capital outlay given in column (3).	Rebate from (+), or share of surplus profits payable to, (—) the Great Indian Peninsula Railway under the agreement dated 12th August 1918.	Total income, column (5) + column (7).	Percentage of total income on total capital outlay given in column (3).		to earnings.
1	2	3	4	5	6	7	8	9	10	11
1913-14 1914-15 1915-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27 1927-28 1928-20 1929-30 1930-31 1931-32 1932-33 1933-34 1934-35	Miles. 12-61	12,03,032 12,12,782 12,12,000 12,20,000 12,20,000 12,34,003 12,41,000	Rs. 74,545 81,325 84,185 80,664 87,222 88,170 1.08,215 1,58,524 1,34,019 1,32,050 1,24,672 1,21,168 1,22,441 96,003 1,11,123 1,08,214 1,00,000 1,02,000 86,000 98,000 1,01,000 1,01,000	20,000 27,000 3,000 17,000 27,000 27,000	1·35 1·32 1·65 2·19 0 25 1·39 2·19 2·17		Rs. 69,872 25,590 43,104 1,307 49,449 46,286 28,649	available.	Rs. 114 129 128 132 133 134 225 335 259 201 190 185 186 168 165 162 166 131 149 149 149 149 154	97.03 83.38 138.54 85.58 85.15 80.00 73.52 96.51 82.60 69.32 68.23

Note-Rs. 9,149 paid as rebate to the Matheran Steam Light Tramway Company Limited for 1929-30.

22. TEZPORE-BALIPARA LIGHT RAILWAY (2' 6" gauge).

Local Agents.-Messrs. Kilburn & Co., Tezpore.

Date of registration of the Company .- 2nd Uctober 1893.

This line was authorised for construction under the Indian Tramways Act, 1886, by the Hon'ble the Chief Commissioner of Assam on the 1st June 1895. On the 3rd May 1898, the Indian Railways Act, IX of 1890, except Section 135, was applied to the line.

A tramway, 2 miles long, was constructed at the expense of the Borjuli Tea Company connecting the Borjuli Tea Factory with Rangapara station on the Tezpore-Balipara Light railway. It was worked by the Tezpore-Balipara Light railway but from February 1908 has been closed to public traffic.

Progress in opening-

	tions	of rai	lway.							Date of opening.	Milca.	Total.
`		1								2	3	4
Tezpore Ghat to Bindukuri								•		9-8-94	8.10	
Bindukuri to Balipara .	•	•		•	•	•	•	-	•	· 1-9-95	12.00	}
							To	TAL		••		20.10

Dotalls of construction-

Permanent-way.—The permanent-way consists of 30-lbs., 35-lbs. and 411 lbs. flat-footed steel rails on sal and Nahor sleepers only.

Ballast.—The line is unballasted, except at turn-outs.

Fencing.—The line is fenced only at stations.

Curves. - In the first mile there are two curves with radii of 500 feet.

Gradients.—The ruling gradient between Tezpore and Rangapara, 16 miles, is 1 in 125 and between Rangapara and Balipara, 4 miles, 1 in 100.

Local Government orders-

Tezpore-Balipara Steam Tramway Company order, published under the Notification by the Hon'ble the Chief Commissioner of Assam, No. 33, dated the 1st June 1895, as to the construction, maintenance and working of the line.

Main provisions of Local Government order-

(i) Land .- Provided at the cost of the Company, other than that which is not held under decennial puttas or where the holders have not acquired land-holder's rights, provided free of cost. Free use of one side of a provincial or local road is authorised for the purpose of laying the line only.

*Letter from the Hon'ble the Chief Commissioner of Assam, No. 3720, dated the 10th November 1893.

Government of India, Public Works Department, letter No. 139-R.C., dated the 2nd February

Railway Board's letter No. 312-R.T., dated the 22nd February 1909.

sidy of Rs. 5,000 per annum up to the end of March 1914.

- (iii) Distribution of profits.—The whole of the profits belong to the Company.
- (iv) Rates and fares.—Control over rates and fares, vests in the Local Government, subject to directions issued by the Government of India. Directions issued have taken the form of prescribing maximum ond minimum rates and fares.

Note.-With offect from 1st April 1938, the coutrol over rates and fares vests in the Government of India.

- (v) Special obligations as to the conveyance of-
 - (a) Mails, Postal Officers and servants on duty.—Conveyed at the rates and on the conditions in force from time to time on State railways.
 - (b) Troops, police, high Government officials and Government stores.

(c) Government bullion and coin and the persons in charge thereof.—

(vi) Power of the Government to determine contract.—After the line has been opened for 15 years and It has since been decided not to give notice of purchase to the Company on the 1st September 1923 and to defer purchase.

[Telegram from the Government of Eastern Bengal and Assam, No. S04-R., dated the 22nd July 1900.]

by giving 12 months' previous notice, have the right to terminate the contract and take over the line by paying to the Company the value of the property es a dividend-earning investment together with a bonus

thereafter at terms of 7 years each, the Government

(ii) Government aid*.—Supply, free of royalty of

timber for sleepers from Government forests for

the first construction of the line only, and a payment by the Tezpore Local Board, of a sub-

of 20 per cent. over and above such value.

- (vii) Power of the Company to surrender contract .- Nil.
- (viii) Term of contract [if not determined under (vi)] .- None specified.

22. TEZPORE-BALIPARA LIGHT RAILWAY (2' 6" gauge)—concld.

Statistics of working. (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14)—

	. Year.		Total capital outlay, including suspense, to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earn- ings.	Percentage of net earn- ings on total capital out- lay given in column (3).	Subsidy from District Board.	Total income.	Percentage of total income on total capital outlay given in column (3).	week.	
	1	2	3	4	5	6	7	8	9	10	11
•	1913-14 .	Miles. 20·10	Rs. 4,87,240	Rs. 1,34,638	Rs. 40,489	8.31	Rs. 5,000	Rs. 45,489	9.33	Rs. 105	69.03
	1914-15 .	20.10	4,87,240	1,35,559	36,620	7.51		36,620	7.51	136	72.98
	J915-16 .	20.10	4.87,240	1,41,801	44,461	9.12		44,461	9.12	139	68.64
	1916-17 .	20.10	4,87,240	1,47,201	46,561	9.55		46,561	9•55	141	68-37
	1917 18 .	20.10	4,87,240	1,33,069	30,034	6.16		30,043	6.16	128	77.42
	1918-19 .	20.10	4,87,240	1,51,827	47,964	9.84		47,964	9.84	149	69.02
•	1919-20 .	20.10	4,87,240	1,65,769	50,167	10.29		50,167	10-29	159	69.73
	1920-21 .	20.10	1,87,240	1,43,998	18,019	3.71		18,119	3.71	138	87.41
	1921-22 .	20.10	4,87,240	1,47,717	13,700	2.81		13,700	2.81	141	90.72
	1922-23 .	20.10	4,87,240	1,85,737	40,210	8.25		40,210	8.25	178	78.35
	1923-24 .	20-10	4,87,240	2,04,152	62,502	12.83		62,502	12.83	196	69.38
	1924-25 .	20-10	4,87,240	1,98,932	59,737	12.26	.,	59,737	12.26	191	69-97
	1925-26 .	20.10	4,87,240	1,95,273	56,670	11.63		56,670	11.63	188	70.98
	1926-27 .	20.10	4,87,240	1,92,058	50,236	10.30		50,236	10.30	188	73.84
	1927-28.	20.10	4,87,240	1,86,620	37,814	7.76		37,814	7.76	179	79.74
	1928-29.	20.10	4,87,240	1,95,388	41,414	8.50	1	41,414	8.50	187	78-80
	1029-30.	29.10	4,87,240	1,88,371	54,328	10.94		54,328	10.94	187	71.16
	1930-31.	20.10	4,87,240	1,79,162	40,740	8.36		40,740	8.36	179	2 77.26
	1931-32.	20.10	4,87,240	1,78,358	37,805	7.75		37,805	7.75	17	1 78·79
	1932-33.	20.10	4,87,240	1,58,000	48,000	9.73		48,000	9.73	15	69.93
	1933-34 .	20.10	4,87,240	1,55,000	49,000	10.06		49,000	10.06	14	8 68.71
	1934-35 .	20.10	4,87,240	1,53,000	38,000	7.74		38,000	7.74	14	6 75.17
	1935-36 .	20.10	4,87 240	1,51,000	35,000	7.13		35,000	7 ∙13	14	4 77.00
	1936-37.	20.10	4,87,240	1,54,000	34,000	6.98		34,000	0 6.98	14	7 77.7

23. TRIVELLORE LIGHT RAILWAY (2' 0" gauge).

Promoters.—Messrs. T. Namberumal Chetty and Sons, Madras.

The construction of this line in the district of Chingleput in the Madras Presidency under the provisions of the Indian Tramways Act, 1886, was authorised in Madras Government, Local and Municipal Department, Notification No. 1019, dated the 6th September 1904.

Progress in opening-

Sections of railway.				Date of opening.	Miles.	Total.	Remarks. 5
Trivellore station to Trivellore temple Extension to Bazaar end	•	:	•	} * 17-9-21 {	2·12 0·25		* This is the date on which the line was included in the list of railways in India.
	TOTAL	•	•]	••		2.37	the list of fallways in India.

Details of construction-

Permanent-way.—The permanent-way consists of 24-lb and 28-lb flat-footed steel rails laid on wooden sleepers fixed with spikes and bolts.

Ballast.—The line is packed with gravel.

Fencing.—The line is unfenced.

Curves.—The sharpest curve is of 30 feet radius.

Gradients.-The steepest gradient is 1 in 20.

Local Government orders -

Vendalur and Trivellore Tramways Order, 1904, published under the Madras Government, Local and Municipal Department, Notification No. 1019, dated the 6th September 1904, authorising the construction, maintenance and use for public traffic of the Vendalur and Trivellore tramways.

Trivellore Tramway Extension Order, 1916, published under the Madras Government, Local and Municipal Department, Notification No. 1048, dated the 17th October 1916, authorising the maintenance and working of the Extension.

Main provisions of Local Government orders—

(i) Land .- Private land acquired through Government and Government land on rent.

(ii) Government aid.—Nil.

(iii) Rates and farcs.—Passenger fares per mile are not to exceed one-half anna for lower class and one anna for upper class accommodation. In respect of goods the rates are as specified in Schedule B annexed to the order of 1904. No revision in rates and fares should be made without Government sanction.

(iv) Special obligations as to the conveyance of—

(a) Mails, troops, police, high Government officials and Government stores.— } Nil.

(v) Power of the Government to determine contract.—If the local authority do not, within 6 calendar months after the expiration of a period of 21 years from the date of the Order of 1904 exercise the powers of purchase contained in the Indian Tramways Act, then such powers of purchase shall, unless otherwise agreed to between the promoter and the local authority, only be exercised within 6 calendar months after the expiration of every subsequent period of 7 years. Whenever the powers of purchase contained in the Act shall be exercised by the Local authorities, the amount to be paid to the promoter for the undertaking shall be equal to the then value of the undertaking which shall be taken as being equal to 25 times the average annual net earnings of the Tramway for the last 5 completed years previous to the date of purchase, and the purchase money shall be paid to the promoter, his legal representatives or his or their assignee in Madras in the standard currency of India at the time of purchase or proportionately in the standard in force during the aforesaid 5 years.

					_		
Year.	Mileage open at end of each year.	Total capital outlay, including suspense to end of each year, i.e., outlay on (i) lines open and (ii) lines partly or wholly under	Gross earnings.	Net carnings.	Percentage of net carn- ings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to earnings.
1	2	construction.	4	5	6	~ 7	8
1921-22	Miles. 2:37 2:37 2:37 2:37 2:37 2:37 2:37 2:37	Rs. 67,158 84,637 93,264 1,07,695 1,15,986 1,16,986 1,16,136 1,16,136 1,16,136 1,16,136 1,16,136 1,16,136 1,16,136 1,16,136 1,16,136 1,18,136 1,18,136 1,18,136	Rs. 7,087 8,790 13,339 10,927 9,936 7,236 3,905 4,509 4,926 3,795 2,888 2,807 2,176 1,187 2,062 1,227	Rs2,284 -4,653 2,149 -2,176 -1,532 -3,594 -3,406 -1,857 -2,507 -1,586 -2,508 -2,508 -1,061 -1,983 -2,008 -2,850	2·30 	Rs. 577 71 103 89 89 80 59 32 37 39 31 23 23 18 10 17 10	132-22 182-93 83-89 110-76 117-43 149-65 189-78 41-18 50-89 41-79 87-00 21-20 149-76 267-06 197-38 332-27

24. UDAIPUR-CHITORGARH RAILWAY (3' 3% gauge).

The line was constructed at the expense of the Mewar Durbar, and was maintained and worked by the Bombay, Baroda and Central India Railway Company up to the 31st December 1897. With effect from 1st January 1898 the maintenance and working of the line were taken over by the Durbar.

Running powers-

Home line over Foreign line :-

Bombay, Baroda and Central India Railway, 3' 3\\$" gauge, Berach Signal station to Chitorgarh 1.42 miles. Jodhpur Railway, 3' 3\\$" guage, near Phulad, 0.20 miles.

Progress in opening -

Sections	of Rail	way.		Date of opening.	Miles.	Total.
Berach near Chitorgarh to Debari r Separate station at Chitorgarh Debari to Udaipur Mavli junction to Kankroli Kankroli to Garbor Road Garbor Road to Khambli Ghat Khambli Ghat to Phulad Junction	enr Udi	aipur	 Total	 1-8-95 15-8-98 25-8-99 1-11-30 20-1-32 16-11-32 4-2-36	60·30 0·47 6·44 18·21 24·56 22·32 13·25	145-64

Details of construction-

. Permanent-way.—The permanent-way consists of :-

On the Udaipur-Barach Section-411 lbs: flat footed Steel rails laid on Deodar and Sal Sleepers.

On the Mayli-Khambli Ghat Section.—50 lbs. flat footed Steel rails laid on steel sleepers.

On the Khambli Ghat-Phulad Section.—80 lbs. flat-footed steel rails laid on steel and Sal sleepers (Sal Sleepers are used where cheek rails are fitted).

Ballast.—The ballast consists of broken stone.

Fencing .- The line is fenced between Udaipur and Debari.

Curres.—The sharpest curves on the different Sections have the following radii:—

1,146 feet on the Berach-Debari section, 820 feet on the Debari-Udaipur section, 717 feet on the Mayli-Khambli Ghat section and 360 feet on the Khambli Ghat-Phulad section.

Gradients.—The ruling gradient on the Berach Khemli Section is 1 in 120, on the Section Khemli to Udaipur it is 1 in 100, on the Mavli-Khambli Ghat section it is 1 in 150 and on the Khambli Ghat-Phulad section it is 1 in 50 compensated.

Contract-

Nil.—The line is owned and vorked by the Mewar Durbar.

Statistics of working, (Those for the periods prior to 1913-14 will be found in Appendix 38 to the Railway Administration Report for 1907 and in Appendix 1 to the Report for 1913-14)--

Year,	Mileage open at end of each year.	Total capital outlay, including surpense to end of each year. i.c., outlay on (i) lines open and (ii) lines partly or wholly under construction.	Gross earnings.	Net earnings,	Percentage of net carnings on total capital outlay given in column (3).	Earnings per mile per week.	Proportion of expenses to carnings.
1	2	3	4	5	6	7	8
1913-14 1914-15 1915-16 1910-17 1917-18 1918-10 1919-20 10:0-21 10:0-21 10:22 10:22-23 10:23-24 10:21-25 10:25-26 10:26-27 10:27-28 10:28-29 10:28-29 10:28-29 10:28-29 10:28-29 10:28-29 10:38-38 10:38-38 10:38-38 10:38-38	Miles. 67:30 67:30 67:30 67:30 67:30 67:30 67:30 67:30 67:30 67:30 67:30 67:30 67:30 67:30 67:30 132:30 132:30 132:30 145:64	Rs. 22,34,126 22,40,201 22,50,354 22,77,052 22,84,476 22,86,112 22,86,112 23,20,117 24,70,837 25,72,453 25,76,005 26,07,081 26,22,964 26,67,161 29,59,589 38,81,946 61,01,113 73,88,051 88,41,901 99,40,796 1,13,85,173 1,22,01,212 1,25,63,233	Rs. 3,19,133 2,65,532 3,24,163 3,75,018 2,76,243 3,37,620 4,03,8328 4,03,814 4,92,729 4,75,264 5,33,667 5,21,61 5,02,026 5,24,497 5,8756 5,60,060 5,77,420 5,75,077 6,02,137 6,16,914 6,01,822 6,69,312 8,33,118	Rs. 1,65,344 1,07,157 1,53,016 1,01,099 1,31,248 1,60,780 2,40,240 1,06,760 1,05,084 1,94,702 2,68,689 2,66,979 2,20,128 2,32,279 2,20,128 2,32,279 2,20,128 2,32,279 2,20,3,285 2,24,603 2,03,285 2,24,603 2,03,285 2,24,603 1,88,066 1,97,624 2,13 -4		R:. 91 76 93 107 78 96 125 103 15 141 133 152 149 143 150 168 160 148 122 98 87 88 118	48·18 59·64 62·79 48·80 52·48 52·37 45·19 54·94 58·90 60·47 67·75 48·82 56·15 55·71 46·21 62·09 64·80 60·25 66·20 68·76 70·47 74·42